

# Furqan Khan

He/Him •

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<https://www.furqan-y-khan.github.io>

## Python Developer

Results-driven Python Developer with 5 years of hands-on experience designing, building, and optimizing scalable software solutions. Skilled in developing high-quality backend systems, RESTful APIs, data-driven applications, and automation pipelines. Adept at leveraging modern Python frameworks, writing clean and maintainable code, and applying best practices in testing, CI/CD, and cloud-native development. Recognized for strong problem-solving ability, cross-functional collaboration, and delivering reliable, production-ready solutions in fast-paced environments.

## WORK EXPERIENCE

### Last App Standing • Remote • 07/2021 – Present

Practiced the commons of Networking between Academia and Real World Organized training manuals and curricula. Worked on developing synergies for action in networking domain

#### CEO

Developed an alternative to V0.dev

A no code coding platform

- Demonstrated ability to manage multiple tasks while remaining adaptable and flexible.
- Responded quickly to meet customer needs and resolve problems
- Worked with coworkers to complete many applications.
- Products:
  - papers.support (Frontier Agentic AI Researcher)
  - agentamiga.com (Automated Email Management system)
  - medinovaai.site (Medical Examiner and Validator)
  - adaai.site (AI enabled Marketing Campaign Manager)
  - bolt.surf (AI Automated Fullstack App Developer)

### CTO • Full-time

*Directed technical strategy and engineering execution for core product offerings, including AI-enabled web applications.*

Built and scaled the technology roadmap in support of commercial objectives.

*Managed engineering teams with responsibility for architecture decisions, technical standards, and deployment processes.*

Coordinated development of APIs, backend systems, and user-facing functionality.

### Project Manager • Full-time

*Executed project planning and delivery for early AI product releases and development milestones.*

*Defined scope, schedule, and resource allocation for cross-disciplinary product initiatives. | Facilitated communication between engineering, design, and stakeholder groups to ensure clarity and alignment.*

*Tracked progress against objectives, resolved bottlenecks, and maintained documentation of project decisions.*

*Supported user testing cycles and quality assurance to ensure timely launch readiness.*

### **Engineer Intern • Internship**

*Assisted with software development tasks for internal tools and product features.*

*Contributed to coding, debugging, and testing under senior engineering guidance.*

*Participated in team meetings and sprint planning to understand product priorities.*

*Supported integration of basic functionality and documentation for ongoing development.*

### **Tata Consultancy Services • Pune, Maharashtra, India • 05/2021 – 07/2021**

#### **TCS Intern**

- Found and eliminated more than 100 solidity bugs for Ethereum, solidity based smart contracts, resulting in improved code quality and reduced risks for business. • The code was updated to Remix Ide.

### **SBI INDIA • Srinagar • 05/2017 – 07/2017**

MARKETING ANALYSIS AND PRODUCT DESIGN

#### **Internee • Part-time**

### **ROBOSAPIENS • SRINAGAR • 12/17 – 01/18**

Arduino Microcontroller

#### **TRAINING**

### **NIELET J&K • SRINAGAR • 12/16 – 01/17**

Programming in C++

#### **TRAINING • Internship**

### **NIELET, J&K • SRINAGAR • 12/16 – 01/17**

WEB DESIGNING

#### **TRAINING • Internship**

## **EDUCATION**

### **PhD in Deep Learning(CSE)**

National Institute of Technology Srinagar • Srinagar • GPA: 9.5 • 08/2023 – Present

Working on Optimizers.

### **Master of Technology – MTech in CSE**

Indian Institute of Technology, Patna • GPA: 8.57 • 01/2020 – 12/2022

Skills: Matplotlib • Seaborn • Computer Vision • Software Testing • Big Data • Pandas (Software) • TensorFlow • PyTorch • Algorithms • NumPy • Deep Learning • Machine Learning

## **B. Tech in Information Technology**

National Institute of Technology Srinagar • Jammu and Kashmir • GPA: 6.541 •  
08/2015 - 06/2019

Design and Analysis of Algorithms, Data Structures, C Programming, COA, DBMS, Compiler Design etc.

## **HSS-II in MEDICAL + MATHEMATICS**

S P Higher Secondary School • Srinagar • GPA: 74.6

## **Matric (10TH) in General**

JK Public School • Humhama • GPA: 9.0

## **CERTIFICATIONS**

**Reviewer Elsevier** • 02/2025 - Present  
Elsevier

**Reviewer IEEE** • 01/2025 - Present  
IEEE

**JRF NET** • 12/2024 - Present  
University Grants Commission

**JKSET 2023** • 07/2023 - Present  
University Grants Commission

**UGC Net** • 07/2023 - 07/2026  
University Grants Commission (UGC)

**UGC NET** • 02/2022 - 02/2026  
University Grants Commission

**UGC NET** • 11/2020 - 11/2024  
University Grants Commission

**GATE CSE 2020** • 04/2020 - 04/2023  
Indian Institute of Technology, Delhi.

**GATE DA 2024**  
IISC

## **AWARDS & SCHOLARSHIPS**

**IBM CFC** • 12/2021  
IBM

**Analytics Olympiad**  
Machine Hack

## **PROJECTS**

**Waiter-Vendor** • 09/2023 - Present  
A project of its kind

## **Open Source** • 01/2017 - 04/2026

Last App Standing

GitHub: <https://github.com/furqan-y-khan>

Open-source developer with a comprehensive portfolio of projects spanning AI/ML systems, full-stack web applications, and data-driven platforms. Demonstrated experience in designing and deploying scalable applications using Flask, Django, and React ecosystems, along with hands-on work in machine learning pipelines, recommendation systems, and financial prediction models.

Contributions include independent repositories and collaborative work across multiple organisations, focusing on practical problem-solving, production-oriented development, and experimentation with advanced paradigms such as transformer-based models, agentic AI systems, and real-time analytics.

Actively maintains and iterates on projects involving SaaS platforms, automation tools, and intelligent systems, with emphasis on usability, performance optimization, and modular architecture.

Some of the projects are

### **AI Crypto Prediction Engine**

Built a time-series forecasting system using Python, Pandas, and ML models to predict cryptocurrency trends and support automated trading decisions.

Key contributions: feature engineering, model training pipeline, API integration (yfinance), and Flask-based deployment.

### **Food Recommendation System (Healthcare AI)**

Developed a personalised diet recommendation engine for obese and hypertensive users using rule-based logic and nutritional datasets.

Key contributions: calorie computation engine, constraint-based filtering, and user-specific recommendation pipeline.

### **Anonymous Freelance Marketplace (Flask)**

Engineered a transactional job platform enabling anonymous job posting and paid access to contact details.

Key contributions: payment logic design, secure workflow handling, and backend architecture.

### **Amiga Dating App (React Native)**

Designed a mobile-first matchmaking platform with AI-assisted interaction features and real-time chat.

Key contributions: frontend architecture, user flow optimisation, and AI-based engagement logic.

GitHub Page Link: Eng. Furqan Khan

## **Papers** • 03/2023 - 04/2026

Last App Standing

Developed and launched **papers.support**, a web-based platform focused on providing academic assistance, research resources, and structured support for students and professionals working on scholarly papers. The platform is designed to streamline access to literature, improve research efficiency, and enable users to organise, analyse, and enhance their academic writing workflow. It emphasises accessibility, simplicity, and practical utility for users across various disciplines.

Link: <https://papers.support>

**LoveDial** • 04/2024 - 04/2026

Last App Standing

Launched **lovedial.date**, a modern communication and connection platform that facilitates meaningful interactions through a simplified and user-centric interface. The platform focuses on enabling users to connect, communicate, and build relationships efficiently, with an emphasis on accessibility, privacy, and ease of use. It incorporates streamlined onboarding and interaction flows to maximize user engagement.

Link: <https://lovedial.date>

**Wisest** • 05/2025 - 04/2026

Last App Standing

Created **wisest.work**, a productivity and decision-support platform aimed at helping users make smarter career, business, and workflow decisions. The platform integrates structured insights, task optimisation strategies, and intelligent guidance mechanisms to enhance efficiency and long-term planning. It is built to serve freelancers, professionals, and independent builders seeking clarity and improved execution in their work.

Link: <https://wisest.work>

**Non Convex Optimization** • 05/2021 - 06/2022

An Optimizer with no overhead, cost effective as first order optim, robust as 2nd order optim, never gets overfitted, tested and proved superiority against state-of-the-art optimizers like ADAM and Nesterov-SGD.

**Analysis and Design of VANET Protocols for Srinagar City** • 08/2018 - 07/2019

NIT Srinagar

This project was created to draft the futuristic traffic plan for Srinagar city based on modern protocols like AODV, DSDV, and many more using SUMO, NS3, Tableau and other simulation and analytics tools.

## VOLUNTEERING & LEADERSHIP

**ILM Institute** • 07/2019 - 06/2020

Parttime Tutor • Srinagar, J&K

- Encouraged open communication.
- Couched students on academic concepts.
- Assisted students with technological conditions

## PUBLICATIONS

**Machine Learning Algorithms for Depression Detection and their Comparison.** •

12/2024

IEEE-Conference

IEEE International Conference on Cognitive Computing in Engineering, Communications, Sciences, and Biomedical Health Informatics. (Accepted)

**Adaptive Moment Estimation Performance Comparison for Predictive Modelling: A Comprehensive Study of Optimizers in Regression Analysis** •

11/2024

ICICC-2025 LNNS (Springer Series)

Accepted.

**Efficient and Automated Fake Review Detection with BERT** • 09/2024

ICAIN-2024 (Springer)

**COVID-19: The Analysis, Impact, and New Specified Algorithms for Prevention, Cure and the Possible Vaccination Path.** •

07/2023

IJNRD

**Addressing traffic issues of Srinagar using modern protocols** • 08/2019

Engineers Institute of India

**A study on artificial neural networks** • 01/2018

IJRSET

## SKILLS

Business, Coding, Success

**Leadership:** Ability To Multitask, Outgoing and Friendly, Public Speaking, Team Leadership

**Machine Learning:** Keras, McTorch, Python, Pytorch, Scikit-Learn

**Analytics and Visualizations:** Matplotlib, Numpy, Pandas, PowerBI, Seaborn, Tableau

**DevOPs & Simulators:** Git, Github, NetSim, NS3, SUMO

**General:** Any python library, C, CPP, data manipulation, Keras, McTorch, preprocessing, Python, Pytorch, Scikit-Learn

**NLP:** AI agents, Langchain, Langgraph, LLMs, n8n, Prompting, transformers

**Languages:** Detailed Info is on LinkedIn and github.io, English, Hindi, Kashmiri, Urdu