

Javid Alexander Fathi

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Education

University of Kentucky

Bachelor of Science with Honors

Computer Science, Minor in Mathematics

Lexington, KY

August 2018 – May 2021 (expected)

Cumulative GPA: 3.875 / 4.00

Departmental/Major GPA: 3.932 / 4.00

Relevant Coursework:

Intro to Artificial Intelligence, Machine Learning, Database Systems, Intro to Computer Networking, Systems Programming, Web Programming, Honors Algorithms, Software Engineering Techniques

Collegiate Honors:

W.C. Parker & Patterson Scholar, recognized Spring 2018

College of Engineering Dean's List, five-time recipient

Skills & Tools

Languages: Python, C/C++, MATLAB, R, SQL, JavaScript, HTML/CSS, UNIX Bash

Frameworks/Software: GitHub, Flask, AWS CLI, Docker, Maven, Jenkins, Selenium

Additional Skills: Computer & Digital Animation (5+ years), CAD Modeling & Design

Work Experience

Channel Portal, Inc.

Software Developer

Louisville, KY

January 2021 – Present

- Implemented a B2B virtual assistant for digital healthcare investments using a custom front-end solution with Vue.js.
- Appointed Scrum Master for development team, utilizing Jira, Slack in Agile environment with 2-week sprints.
- Designed a Python web-service framework using Flask, Clickhouse (SQLAlchemy), MongoDB, and AWS (EC2, S3).

College of Engineering, University of Kentucky

Undergraduate Teaching Assistant

Lexington, KY

January 2019 – Present

- Designed projects and course materials for UK's First-Year Engineering Program as a freshman at the University.
- Introduced object-oriented and structured programming to 50 students using Python, MATLAB, and Arduino.
- Managed office hours & lab sessions for 200+ undergraduate students through Canvas LMS and Zoom meetings.

Cyber-Physical Systems Lab, University of Kentucky

Undergraduate Researcher, Next-Gen Challenged Networks

Lexington, KY

August 2019 – December 2019

- Conducted LAN experiments utilizing a testbed of USRP software-defined radios (SDRs).
- Studied network architecture proposals designed to address rural connectivity (e.g.: Dynamic Spectrum Access).
- Prepared documentation on GNU-Radio, Python modules, and wireless signal processing for future researchers.

Selected Works

Additional work samples at: github.com/jfathi/research-uky

Monte Carlo Markov Chain: Python software approximating conditional probabilities on a Bayesian Network.

Network-Private Remote Folders: Python implementation of private TCP applications on a local computer network.

Novel Shell: C++ implementation of an object-oriented UNIX terminal.

Steps Forward: Memo written to UK's Black Student Advisory Council with Dr. Karl Reid, Executive Director of NSBE.

Community Engagement & Activities

Association of Computing Machinery, UK Chapter
Oxford-Style Debate Society, Lewis Honors College
Marvel Village for Families with Special Needs

Student Officer & Outreach Chair, November 2020 – Present
Organizing Chair, October 2018 – August 2019
Founding Member, November 2016 – July 2018