

# AMIN FAHIMINIA

Computer Engineering Student at UBC

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## EDUCATION

BACHLOR OF APPLIED SCIENCE  
COMPUTER ENGINEERING  
*University of British Columbia*

Dean's Honor List –  
Sessional Average 84.4%

## KEY SKILLS

**Coding:** Python, System Verilog,

ARM Assembly, Java, C,

JavaScript, TypeScript

**Frameworks:** Flask, TCP/UDP,

Protocols, Socket.IO, Docker,

JUnit/unittest, Jupyter

Notebook, React JS/Material UI,

NumPy/Matplotlib

**Applications/Tools:** Git/GitHub,

Linux (SSH), ModelSim, Quartus,

VS Code, Arduino

**Soft Skills:** Highly organized,

Excellent attention to details,

Adaptable to new environments

and situations, Effective in

building and maintaining peer

relationships

## OBJECTIVE

To become a proficient software engineer, enabling me to apply my knowledge of computer engineering and problem-solving skills to develop and maintain high-quality software solutions. I am excited to have the opportunity to work in the technology industry and use my passion for learning to grow as a developer.

## TECHNICAL EXPERIENCE

Software Developer

*UBC Uncrewed Aircraft Systems*

*September 2021 – Present*

- Created a Flask server capable of handling dynamic flight mission queues in the form of GET and POST requests, sending appropriate coordinates to the drone in real time.
- Constructed a web-application utilizing the React framework as well as Typescript, HTML, and CSS that streamed a live feed from an autonomous gimble and provided means for real-time control. Utilized in competition.
- Developed a comprehensive backend using Python and Socket.IO, enabling a reliable connection between the ground control system and the drone during competition.
- Worked in a fast-paced Agile team environment, delivering high-quality results under strict competition time constraints.

## TECHNICAL PROJECTS

*Turing-Complete System Verilog CPU*

*September – December 2022*

- Designed a fully functional CPU, complete with a Datapath, controller FSM, and RAM/Register Modules.
- Employed tools such as Modelsim and Quartus to aid in the verification and synthesis process.
- Implemented a subset of the ARM Assembly Instruction set, enabling the machine to run scripts in real time.

## OTHER EXPERINCES

Camp Councilor/Swimming  
Instructor

*The City of Calgary, AB*

*September 2020 – June 2021*

- Demonstrated leadership by planning activities and guiding campers via structured plans throughout the day.
  - Educated children through coordinated swimming lessons during allocated times.
  - Took initiative by providing direct supervision and ensuring the safety of all patrons on the facility.
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## TECHNCICAL COURSES

- Software Construction (Java Software Engineering Course)
  - Computer Systems (Combinational and Sequential Circuits, HDL's, digital system design)
  - Python Core Bootcamp
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## INTERESTS

Hiking  
Basketball  
Biking  
Tech  
Reading

## TECHNICAL PROJECTS- CONTINUED

*Twitter Listener Server*

*November – December 2022*

- Integrated a thread-safe query service for fetching Tweets using Twitter's built-in API in Java.
- Implemented a dynamic caching algorithm that offsets heavy network use from multiple clients.
- Developed a server that wrapped for the service, allowing it to be hosted on the web to handle requests from clients worldwide

*Big Data Analysis Project*

*March – June 2021*

- Conducted an observational study using the data-analysis capabilities of Python, resulting the paper being entered into a competition at the national level.
  - Employed tools such as Jupyter Notebook, Panda, NumPy and Matplotlib; pulled data from a vast array of datasets to construct a comprehensive research paper with detailed findings.
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## EXTRACURRICULARS

STEM Junior Mentor

*September 2020 – June 2021*

*STEM Fellowship of Canada, Calgary, AB*

- Mentored/taught young students in STEM related subjects
- Led classes though subjects pertaining to math, science, and engineering design
- Thoroughly drafted and planned the sessions so that they would be engaging and fun