

Mohammadamin Baqershahi

📍 Vancouver, Canada ✉ baqershahi@ece.ubc.ca ☎ +1 (672) 338 7117 in amin-baqershahi 🌐 aminb7

Education

University of British Columbia

MASc in Electrical and Computer Engineering

Sept 2023 – Present
Vancouver, Canada

- GPA: 88.3/100
- Courses: Advanced Operating Systems, Trade-offs in Designing Computer Systems, Systems Security
- Awards: BPOC Graduate Excellence Award, Graduate Support Initiative Award, International Tuition Award

University of Tehran

BSc in Computer Engineering

Sept 2018 – Sept 2022
Tehran, Iran

- GPA: 18.34/20 (3.87/4)
- Ranked 6th among 99 Computer Engineering students
- Awards: University of Tehran Supporter Foundation Scholarship, Ranked 171st in Iran's National University Entrance Exam (top 0.1%), exam-free admission to the M.Sc. program in recognition of exceptional talent

Experience

Graduate Research Assistant, University of British Columbia. Vancouver, Canada

Sept 2023 – Present

- Supervisor: [Prof. Mohammad Shahrad](#)
- Conducted research on next-generation serverless computing systems, focusing on optimizing resource efficiency and performance through language runtime-based isolation.

Undergraduate Research Assistant, Monash University

Jun 2022 – Feb 2023

- Supervisor: [Prof. Adel Nadjaran Toosi](#)
- Analyzed prior work on Kubernetes scheduling, identifying research gaps and optimization opportunities.
- Set up monitoring pipelines to enable real-time performance data collection to be used in scheduling.

Software Engineer, Snapp. Tehran, Iran

Sept 2021 – Jul 2023

- Contributed to the development, deployment, and maintenance of Kubernetes-based production services.
- Developed a production service for calculating the actual driven distance of drivers based on GPS

Projects

Khatkesh (Drivers' Driven Distance Calculator), Snapp

- Developed and deployed a service for calculating drivers' driven distance based on GPS on production.
- Tools Used: Go, Cassandra, Docker, Kubernetes, Prometheus

Distributed Peer-to-Peer File Sharing System [🔗](#), University of Tehran

- Developed a peer-to-peer file sharing system that enables nodes to communicate over Wi-Fi or Bluetooth.
- Tools Used: Python

Compiler for Sophia Programming Language [🔗](#), University of Tehran

- Developed a complete compiler for an object-oriented programming language named Sophia.
- Tools Used: Java

Network DLP (Data Leakage Prevention)

- Contributed to building deep packet inspection tools to process SSL/TLS packets to prevent data leakages.
- Tools Used: C++, C

Skills

Languages: Go, Python, C++, C, Java, Bash, SQL, JavaScript, HTML, CSS, Verilog HDL

Technologies: Kubernetes, Knative, WebAssembly, OKD, Docker, Argo CD, Prometheus, Grafana, Jaeger, Git

Databases: MongoDB, Cassandra, MySQL, PostgreSQL, Redis, Neo4j

Operating Systems: Linux, Windows

Languages

English: Fluent (TOEFL iBT Score: 106/120 [R: 28, L: 29, S: 22, W: 27] (Oct. 2022))

Persian: Native proficiency