Mahtab Khan

Toronto, ON, Canada 🤳 4037149366 🗷 mohammadmahtab.khan@ucalgary.ca 🛅 linkedin.com/in/mmahtabkhan github.com/Mmahtab10

Education

University of Calgary

September 2019 - May 2024

Bachelor of Science in Software Engineering, with Distinction

Calgary, Alberta

cGPA: 3.8/4.0 (Dean's List 2019-2024)

Relevant Coursework: Software Design, Data Structures and Algorithms, Web-Based Systems, Database Management Systems, Distributed Systems, Scalable Data Analytics, Software Performance Evaluation, Computer Networks

Experience

Outlier AI Inc.

June 2024 – Present

Software Engineer Remote

- Evaluated and enhanced the quality of AI-generated code in Python and SQL, providing documentation and solving coding problems with efficient solutions, resulting in a 30% decrease in bug reports from QA testing
- Automated testing procedures and developed robust test cases for new code releases, improving code standards and reducing bugs by 15%

TrapEase (Cybersecurity Startup)

July 2023 - April 2024

Software Engineer/Co-founder

Calgary, AB

- Co-founded a cybersecurity startup, secured \$1,000 in funding and pitched to an audience of 500+ stakeholders
- Maintained and optimized web and mobile applications, leading to a 15% decrease in load times
- Integrated AWS cloud services to analyze user behavior patterns and identify potential threats, reducing false positives by 60% and increasing overall accuracy by 80%

Pason Systems Inc.

May 2022 – September 2023

Data Science Intern (Applied Research)

Calgary, Alberta

- Collaborated in a team of 8 in **Agile** to develop a data analysis tool in **Python**, utilized by over 2,000 weekly users
- Designed and deployed section detection algorithms, enhancing data processing speed by 17% and accuracy by 15% resulting in a weekly saving of 9 hours of manual work
- Converted monolithic systems to microservices by developing **RESTful** APIs with **TLS** encryption for communication
- Engineered real-time data processing solutions at 1s, 10s, and 60s intervals, designing custom API endpoints that integrated with internal systems to provide real-time access to KPI data
- Collaborated closely with developers to identify edge cases and implement unit and functional tests, ensuring high code reliability and quality, resulting in a 25% improvement in code coverage and a reduction in production bugs
- Conducted code reviews to ensure quality and modularity in production updates, while effectively navigating and contributing to large-scale codebases

University of Calgary

June 2021 - August 2021

Biometric Software Research Associate

Remote

• Designed and developed intuitive and user-friendly interfaces using React.js, focusing on enhancing accessibility

Technical Projects

Distributix (Distributed Ticketing System) Ω

AWS | Tailwind CSS | Python | Redis | Typescript

• Engineered a scalable and fault-tolerant platform on AWS using a microservices architecture, leveraging replica deployment and database replication across multiple instances

Property Management System 🖸

Node.js | Next.js | Docker | Git | MySQL

• Led the development of a Node is platform with a scalable AWS backend and designed APIs integrated with database

Technical Skills

Languages: Python, C, C++, SQL, JavaScript, TypeScript, Java, GraphQL

Developer Tools: AWS, Npm, Jira, Git, Docker, Postman, Selenium, Jest, Linux, Redis Libraries/Frameworks: React.js, PySpark, Node.js, JUnit, Pandas, Django, Remix, Redux