

# Marium Ashraf

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## EDUCATION

### Bachelor of Computer Engineering, Toronto Metropolitan University

Major in **Software Engineering**

**Relevant Coursework:** Object-Oriented Programming, Operating Systems, Database Management Systems, Software Architecture, Data Engineering, Algorithms & Data Structures

## TECHNICAL SKILLS

Languages & Core: Python, Ruby, JavaScript (React/TypeScript), SQL, HTML/CSS

Development Tools: Git, Docker, Jest, CI/CD, Linux, VS Code

Cloud & Infrastructure: AWS (S3, RDS), PostgreSQL, Redis

## RELEVANT EXPERIENCE

### Personal Projects, Toronto - *Software Engineer* 2019 - Present

- Built a scalable cybersecurity dashboard using React/TypeScript and AWS services (Cognito, S3), reducing log processing latency by 30% through efficient database optimization
- Engineered a high-performance data visualization platform using React and TypeScript, improving rendering performance by 25% through advanced state management and WebSocket integration
- Developed a full-stack financial analytics platform using MERN stack and TypeScript, featuring real-time data processing, interactive data grids, and ML-powered prediction models; implemented responsive Material-UI components and MongoDB optimization techniques for efficient handling of large-scale financial datasets, improving data retrieval speed by 40%

### AI Systems Specialist, Toronto - *Outlier (Contract, Full-time)* Nov 2024 - Present

- Developed and shipped production-ready Python microservices, focusing on clean code practices and efficient API design that improved system accuracy by 35%
- Architected scalable solutions handling 100+ concurrent operations, incorporating data validation and error handling to ensure robust system performance
- Implemented comprehensive testing frameworks with 90% coverage, documenting best practices and configuration standards for the development team

### CS/ Math Tutor, Toronto - *Freelance* Sep 2021 - Present

- Led technical mentoring sessions focusing on Python and Ruby development, improving student comprehension rates from 65% to 95% in assessment scores
- Created hands-on workshops for full-stack development concepts, helping students achieve an average grade improvement of 40% through practical project implementation
- Fostered collaborative learning environments through pair programming and code reviews, resulting in consistent grade improvements from D (60%) to A (85%) ranges