

# Moh (Zoso) Robati

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## EDUCATION / TRAINING

- **AWS Certified Solutions Architect — Associate** AWS  
*Amazon Web Servers (link)* Dec. 2022 – Dec. 2025
- **Master of Applied Science in Computer Software** Waterloo, ON, Canada  
*University of Waterloo, Electircal and Computer Engineering Dept.* Sep. 2021 – May 2023
- **Bachelor of Science in Computer Engineering** Tehran, Iran  
*Tehran Polytechnic* Sep. 2017 – Sep. 2021

## EXPERIENCE

- **Full Stack Javascript Developer** BC, Canada  
*CharterHouse Lawyers* May 2022 – Present
  - Developed a cloud-based Javascript software. The software was designed to meet the specific needs of the law firm and improve their workflow and productivity. I designed an effective REST API, following best Object-Oriented design practices, and built an engaging and easy to use user interface, showcasing my capabilities as a Full-Stack Developer. Additionally, I established a smooth connection with cloud services to ensure centralized management and scalability. The software was delivered in multiple stages, incorporating employer feedback through weekly meetings.
- **Lab Instructor / Teaching Assistant** Waterloo, ON  
*University of Waterloo* Jan. 2022 – Present
  - As a TA, I effectively taught high performance and multithreaded programming and courses and held code review meetings to help students improve their coding skills, many of whom went on to secure jobs at major technology companies. I also authored and updated automated grading scripts, providing efficient and timely feedback to students. I am proud of the excellent feedback received during my semesters as a TA.
- **React Native Team Leader** Tehran, Iran  
*Utopia* Feb. 2019 – Sep. 2021
  - In this project, I gained a wealth of experience in various aspects of software development, including requirements elicitation, database design, GraphQL API design, project management, and leadership. I demonstrated my ability to effectively communicate with clients and team members, and have honed my skills in managing time and resources. Additionally, I led a group of four people in the development of a React Native app from scratch, showcasing my ability to lead and manage a team. This app was deployed for both iOS and Android devices.

## PROJECTS

- **Ruxanne:** Ruxanne is a tool that analyzes and extracts fix patterns in Rust by implementing a novel embedding of Rust code into fixed-sized vectors. By mining top 18 most-starred Rust projects in Github, Ruxanne discovered 20 groups of cross-project bug fix patterns, which are important for automated program repair.
- **Leveraging path-based code representations for improved WebAssembly program analysis:** I developed two novel code representations for AST-based sequential encoding of Wasm binaries as well as a code embedding, which can be used in both traditional machine learning models and advanced AI models such as sequence-to-sequence and transformer-based models like GPT, showcasing my advanced abilities in AI.
- **Spread out your carpet with AR!:** I created a fully functional mobile app using Viro React framework for React Native that allows users to browse and virtually place carpets on the floor, showcasing my advanced capabilities in mobile and front-end development, proficiency in rapid development and usage of cutting-edge technologies.

## SKILLS

- **Programming Languages:** Javascript, Typescript, Python, Rust, C/C++, Java, Racket
- Frameworks:** React.js, Node.js, React Native, Express.js, Three.js, Viro React AR/VR, WebGL, Bootstrap
- AWS Technologies:** EC2, S3, RDS, Aurora, DynamoDB, Lambda, CloudFront, SNS, SQS
- Other Skills:** Docker, Kubernetes, Jenkins, Git, Unity, CUDA, HTML5 / CSS3, Agile, Scrum
- Soft Skills:** Communication, Leadership, Teamwork, Critical thinking, Creativity, Adaptability, Problem-solving, Time management