Niyousha Raeesinejad

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Education

University of Calgary   Calgary, Alberta, Canada
BSc. Software Engineering, with Distinction   *Sep 2017 – May 2024*
- Minor: Management and Society
- Certificate: Entrepreneurial Thinking

Technical Skills

Languages: JavaScript, TypeScript, HTML, CSS, Java, C++, Python, LaTeX
Frameworks/Libraries: React, React Native, Next.js, Redux, Node.js, Spring
Tools/Servers: Figma, Pendo, Git, VS Code, Intellij, AWS, Jira, MySQL, IBM SPSS

Experience

Software Developer | Software Developer Intern   May 2021 – Present
Pason Systems
- Spearheaded the design and implementation of 3D and 2D chart widgets in React Typescript displaying real-time drilling data with various custom interactions on the Well Dashboard and Pason Live applications, released to more than 100K users worldwide.
- Optimized the Pason Live app for mobile use by implementing responsive web views for a React Native app, enhancing touch performance, and refining layouts for a seamless user experience across devices.
- Developed a React-based RAG application for an internal knowledge base chatbot, leveraging AWS Bedrock to evaluate various LLM models based on cost, performance, and security which reduced search times by 30%.
- Led multiple modernization initiatives including but not limited to containerizing Java backend services on AWS and setting up end-to-end testing frameworks using Playwright and Selenium, which increased coverage of frontend applications by 50%.
- Created and maintained approximately 20 product tours on Pendo highlighting core features across our applications, reducing the number of help calls from customers by 75%.
- Provided Tier 3 support and performed root-cause analysis to fix defects across React apps and Java microservices.

President | Website Team Lead   Feb 2021 – May 2024
Tech Start UCalgary
- Oversaw the executive team and project teams consisting of 200 students towards becoming the number 1 student hub for entrepreneurship and tech innovation in Calgary.
- Led and mentored a team of 10 student developers in the fundamentals of agile web development and version control to implement a stable, responsive, and maintainable website showcasing the club's projects, teams, and latest activities using Figma, React, and TypeScript.
- Integrated Google analytics and enhanced the Tech Start website to achieve a monthly user count and retention rate increase of 70% and 35% respectively.

Research Associate   May 2020 – Aug 2023
Schulich School of Engineering, University of Calgary
- Authored 2 research papers on conveying the significance of software engineering best practices and optimal design patterns through a hybrid project-based learning (PBL) approach and the impact of integrating hackathons in Software Engineering curricula, published by IEEE and presented at the FIE 2022 Conference in Sweden.
- Authored a book on tailoring frameworks and processes such as feature-based development and agile methods towards preparing student interns for the tech industry, published by Springer in December 2023.