



# Niyousha Raesinejad

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## Education

### University of Calgary

*BSc. Software Engineering, with Distinction*

- Minor: Management and Society
- Certificate: Entrepreneurial Thinking

Calgary, Alberta, Canada

Sep 2017 – May 2024

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## Technical Skills

**Languages:** JavaScript, TypeScript, HTML, CSS, Java, C++, Python, LaTeX

**Frameworks/Libraries:** React, Next.js, Redux, Playwright, Node.js, Spring, Django

**Tools/Servers:** Figma, Pendo, Git, VS Code, IntelliJ, AWS, Jira, MySQL, IBM SPSS

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## Experience

### Software Developer

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, enhancing touch performance, and refining layouts for a seamless user experience across devices.
- 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%.
- As a Pendo SME, created and maintained approximately 20 customer product tours highlighting core features across our applications, established an optimal product tour workflow between developers, designers, QA, and product management, and delivered multiple infoshare presentations and workshops to maintain this workflow across DataHub.
- Provided Tier 3 support and performed root-cause analysis to fix approximately 50 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 enhance the Tech Start website, achieving a monthly user count and retention rate increase by 70% and 35% respectively.
- Worked with a team of 5 developers to implement a stable, responsive, and maintainable website showcasing the club's projects, teams, and latest activities using Figma, React, and TypeScript.

### 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.