CASPER NGUYEN

Edmonton, AB, Canada

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EDUCATION

University of Alberta   **Sep 2020 - Jun 2025**
BSc, Computing Science (Specialization). GPA: 3.4/4.0   *Edmonton, AB*

EXPERIENCE

BlackBerry   **Jan - Aug 2024**
Technical Writer Student / Software Developer   *Waterloo, ON*
- Engineered and deployed 2 data connectors (seat weight, car speed) using C++ and the BlackBerry IVY platform, running on QNX OS emulated with QEMU.
- Resolved critical production failures by debugging and restoring 2 GitLab CI/CD pipelines, leveraging Python and the Jira API to improve average runtime by 6%.
- Enhanced team productivity by developing a BASH script that automated and streamlined the QNX TechPubs onboarding process for new Linux-based team members.
- Contributed to improved developer experience on the BlackBerry IVY platform by authoring comprehensive framework documentation and technical guides.

Amelia   **Oct - Dec 2023**
Software Engineer Intern   *Remote*
- Developed and shipped new features for a production iOS application, resolving critical bugs using React Native and TypeScript.
- Devised an Expo-based workaround to overcome critical compatibility issues with legacy tooling.

Imagine Cities   **Sep - Dec 2023**
Software Developer   *Edmonton, AB*
- Co-developed a full-stack community project listing portal using Python and Django.
- Ensured code quality and reliability by authoring comprehensive Django unit and Selenium integration tests, achieving 80% code coverage.
- Implemented a CI/CD pipeline using GitHub Actions and Cybera Cloud to automate testing and deployment, improving the development workflow.

PROJECTS

PeakCV | *TypeScript, React, Redux, Node.js, Express, Tailwind, Docker* | ⊙🌐▶   **May - Aug 2025**
- Developing an AI-powered resume optimization tool using React, Redux, Node.js, and Gemini to tailor CVs to specific job descriptions.
- Performed AI prompt engineering with Gemini to parse resume texts and generate suggestions.
- Implemented PDF viewer, code editors, auto JSON to LaTeX translator, and PDF generator features.
- Containerized Node.js backend with Docker and deployed it to Microsoft Azure for scalable cloud hosting.

FinShark | *C#, TypeScript, ASP.NET, React, Redux, Tailwind, MS SQL Server* | ⊙🌐▶   **May 2025**
- Developed a full-stack financial analysis web application using ASP.NET and React, enabling users to analyze stocks and manage personal portfolios.
- Integrated the Financial Modeling Prep (FMP) API to provide real-time stock prices and comprehensive company financial data.
- Configured a CI/CD pipeline for automated builds and deployments to Azure and Vercel.

Memories | *TypeScript, JavaScript, React, Node.js, Express, MongoDB, Redux* | ⊙🌐▶   **Aug - Sep 2023**
- Built a social media app with the MERN stack, which allows users to post pictures along with their notes, as well as like and comment on other posts.
- Implemented authentication, recommendation, and pagination features.
- Deployed application to Heroku and Vercel; designed intuitive UI with MaterialUI.

TECHNICAL SKILLS

Languages: TypeScript, JavaScript, C#, HTML/CSS, Python, SQL
Frameworks & Libraries: React, ASP.NET, Django, Node.js, .NET Core, Redux, Express, Tailwind, Bootstrap
Databases: MS SQL Server, MongoDB, PostgreSQL, SQLite
Tools & Services: Git, GitHub, GitLab, Subversion (SVN), Heroku, Azure, AWS EC2, Google Cloud, Jira