

# BRANDON PHAN

Calgary, Alberta, Canada | (403) 966-8363 | [My Website](#) | [LinkedIn](#) | [Github](#)

## EDUCATION

**Software Engineering, Master of Engineering, GPA (3.78/4.00)**

**May 2022 – May 2024**

University of Calgary

**Chemical Engineering, Bachelor of Science**

**Sept 2016 – May 2021**

University of Calgary

## PROFESSIONAL EXPERIENCE

**Benevity**

**Dec 2023 – June 2024**

Software Engineer – Artificial Intelligence Intern

Calgary, Alberta

- Researched, developed, implemented AI agents and Generative AI technologies to automate daily operations and workflows, enhancing efficiency and streamlining processes at Benevity
- Developed a full-stack AI web application with LangChain and Streamlit, utilizing RAG (Retrieval-Augmented Generation) and OpenAI LLMs (Large Language Models) for automated web scraping and enhanced news sourcing via Tavily search engine and NewsAPI
- Generated concise summaries from reputable sources such as CNN and BBC, cross-verified with Benevity's API to confirm if related humanitarian efforts pulled were supported, achieving a 92% match rate
- Reduced manual oversight for tracking global news stories by 65% through stakeholder feedback
- Containerized the application with Docker and hosted it on AWS Elastic Beanstalk

## PROJECTS

**Flight Reservation Full Stack Web Application** 

- Developed a CRUD web application to simulate the user experience of creating an account, browsing flights, purchasing a plane ticket, seat selection process and ticket cancellation
- Implemented admin functionalities, including managing flights, seat configurations, user accounts, pricing structures, content updates, customer support tools and system configurations
- Front-end: Utilized React.js for a simple user interface
- Back-end: Employed MySQL for efficient storage and retrieval of flight, user, and configuration data, integrated with Spring Boot for implementing RESTful APIs and business logic handling

**E-Commerce Full Stack Web Application** 

- Developed a serverless e-commerce web application with Clerk user authentication and secure Stripe transactions, enabling users to set up and manage their own online stores
- Deployed the application through Vercel for seamless scalability and performance
- Front-end: Utilized Next.js, React.js, and Tailwind CSS for a dynamic and responsive user interface
- Back-end: Implemented PlanetScale for a scalable, serverless MySQL database and used PrismaDB as an ORM for efficient data querying and management

## SKILLS

**Front-end** (HTML, CSS, JavaScript, TypeScript, Bootstrap, Tailwind CSS, React.js, Next.js)

**Back-end** (Node.js, Express.js, Python, Java, C++, Django, Flask, Spring Boot)

**Database and Version Control** (MySQL, PostgreSQL, NoSQL, MongoDB, PrismaDB, Git, NPM)

**DevOps Tools and Platforms** (Docker, Kubernetes, OpenShift, Istio)

**Software Design** (Object-Oriented Programming, Model-View-Controller Architecture)

**Additional Tools** (Postman, Vercel)

## CERTIFICATES

IBM Full Stack Software Developer Professional Certificate 

**June 2024**

Microsoft Certified: Azure Fundamentals (AZ-900)

**July 2024**