Parth Chheda

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EDUCATION

University of British Columbia   Aug 2023 – Dec 2027
BSc in Computer Science   *GPA: 4.12/4.33*
- Dean's Scholar (2024) - awarded in recognition of high academic achievement over the previous year
- Charles and Jane Banks Scholarship (2025) - awarded on the recommendation of the Faculty of Science

EXPERIENCE

Software Engineer Intern   May 2025 – Aug 2025
Clause Technology   *Vancouver, BC, Canada*
- Led development of a **RESTful API** for an admin dashboard using **Node.js** and **MongoDB**, enabling weekly analytics updates and support for over **1000+ projected users**
- Implemented core backend features including two-factor authentication (2FA), role-based access control, and dynamic PDF generation using **Redis** and **Firebase**, enhancing system security and overall user experience
- Containerized and deployed backend services with **Docker** on **Google Cloud Compute Engine**, ensuring reliable access across **3 platforms**
- Optimized form completion by integrating **Large Language Models (LLMs)** to auto-fill questions from prompts and reduced API response time by up to **40%** by parallelizing LLM calls and database queries
- Refactored a **React** codebase by creating reusable components, reducing file size by **25%**, improving maintainability and reducing technical debt, resulting in faster feature development and easier debugging

PROJECTS

Job Application Tracker | [GitHub](#) | [Website](#)   Aug 2025
- Designed and developed a full-stack job application tracker using **Next.js** and **Spring Boot**, enabling users to store resumes, manage applications, and view detailed analytics
- Implemented backend features in **Spring Boot** including analytics aggregation, complete CRUD functionality, **LLM** ratings for resume, and **JWT-based authentication** via Spring Security
- Integrated **Azure Blob Storage** for secure file uploads and retrieval, leveraged **Azure Database for PostgreSQL** to manage structured data, and deployed the Spring Boot backend to **Azure App Service**

BrainJack! | [GitHub](#)   Jan 2025
- Built an educational Blackjack variant for nwHacks 2025 where players answer trivia questions to multiply winnings, using **React** and **Spring Boot** in a team of 3
- Wrote **SQL** queries to persist player scores and questions in a **PostgreSQL** database connected via **Node.js**

Elective Finder | [GitHub](#) | [Website](#)   Dec 2024
- Developed a web application with **React**, **FastAPI** and **MUI** to help students find electives across **1500+ courses**
- Built a **FastAPI** backend with **JWT-based authentication** and CRUD functionality, and **MongoDB** for data persistence to manage and secure course and user data
- Integrated **Chart.js** to visualize grade distribution on courses and the **Gemini 1.5 Flash** API to provide course recommendations based on submitted user data

Fantasy Premier League Player Comparison Tool | [GitHub](#) | [Website](#)   Aug 2024
- Created a full-stack web application for analyzing live Fantasy Premier League (FPL) player and team data with **React** and **Node.js**, helping users achieve a **35%** improvement in global rank compared to previous seasons
- Leveraged the Puppeteer library for web scraping and merging data on **over 1000 soccer players** on three different soccer statistics sites and stored the data on a **MongoDB** database
- Created a **REST API** using **Node.js**, utilizing **Mongoose**'s data querying and manipulation features to receive the data from the database and serve data to the frontend, testing API endpoints using **Postman**

TECHNICAL SKILLS

Languages/Technologies: JavaScript, TypeScript, Python, HTML/CSS, Java, MongoDB, SQL, Redis
Frameworks/Libraries: Spring Boot, Node.js, Express, TailwindCSS, FastAPI, React, Next.js, Jest, PostgreSQL
Developer Tools: Git, Postman, Firebase, Google Cloud Platform, Microsoft Azure, VSCode, IntelliJ