

# PARTH CHHEDA

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## TECHNICAL SKILLS

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- Languages/Databases: JavaScript, TypeScript, Python, HTML/CSS, Java, C++, R, MongoDB, JSON
- Frameworks/Libraries: React, Node.js, Express, TailwindCSS, React Router, Puppeteer, JUnit, FastAPI
- Developer Tools: Git, Postman, VSCode, Eclipse, IntelliJ

## TECHNICAL PROJECTS

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### BrainJack! | [GitHub](#) | [Website](#)

January 2024

- Collaborated in a team of 3 to develop an educational variant of Blackjack where players can answer trivia questions to influence their winnings using React, Node.js, and MongoDB for our nwHacks 2025 submission
- Persisted user player scores provided by users in a MongoDB database, serving the data using Node.js and Express, and displaying player data as a collective top 100 leaderboard made using React and TailwindCSS
- Utilized React Router to implement dynamic client-side routing and handled game logic and flow entirely in the frontend with React and JavaScript.

### Elective Finder | [GitHub](#) | [Website](#)

December 2024

- Developed a full-stack web application to help students find electives they are likely to be interested in with React, FastAPI, and MongoDB
- Utilized Google's Gemini 1.5 Flash API generative AI capabilities to read user course data from a MongoDB database and provide elective recommendations
- Leveraged FastAPI to develop an API to manage user-specific course data, using JWT authentication for access control and MongoDB for data persistence

### Fantasy Premier League Player Comparison Tool | [GitHub](#) | [Website](#)

Jul 2024 – Sep 2024

- Developed a full-stack web application for analyzing live Fantasy Premier League (FPL) player and team data with React, Node.js, and Express
- Utilized the Puppeteer library and JavaScript promise handling 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
- Leveraged the React Router library to implement dynamic client-side routing and utilized TailwindCSS to create a responsive UI and the dynamic highlighting of player statistics based on player performance
- 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

### Heart Disease Predictor | [GitHub](#)

Mar 2024 - Apr 2024

- Collaborated in a team of 4 to develop a K-Nearest Neighbor prediction model to predict heart disease
- Trained the model with data on patients with and without heart disease, considering variables such as cholesterol levels, age and resting heart rates, resulting in a model accuracy of 67% and a recall of 69%
- Supported the analysis of data with graphs produced using the ggplot package to highlight the relationship of variables and check for overfitting and cleaned the data using the tidymodels package

## EDUCATION

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The University Of British Columbia

Aug 2023 – Nov 2027

BSc in Computer Science

GPA: 4.10 / 4.33

- Dean's Scholar (2024) — awarded in recognition of high academic achievement over the previous year

## EXTRACURRICULAR EXPERIENCE

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### HerJourney

Aug 2022 – May 2023

- Collaborated with the Humanitarian Organization for Home Economics in Singapore to spread awareness on migrant worker rights in local communities through information and documentary viewing sessions

### Chelsea Football Coaching and Leadership

Aug 2021 – May 2022

- Conducted weekly soccer coaching sessions in a team of 7 intended for children from low-income families aged 5-7 with the purpose of boosting children's confidence, and improving fitness through structured activities