

Marmik Patel

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Technical Skills

Languages/Libraries: Java, C, Python, React.js, HTML, CSS, JavaScript

Developer Tools: Linux/Unix Environment, Git, IntelliJ, VS Code, Android Studio, UML

Projects

Student Residence System

Sep 2021 - Dec 2021

Developing Object-Oriented Systems, University of Saskatchewan, Saskatoon, SK

- Integrated Command, Strategy, and Singleton **software design patterns** through 17 classes/interfaces, assembling a **Java object-oriented system** that captures a university residence organization.
- Employed the **Waterfall SDLC** methodology to implement a GUI using **Java's Swing** and **AWT** libraries, generating 10 core components for personalized user experience.
- Designed **unit and integration tests** using **TDD** in 52 methods, verifying modularity and input versatility.
- Refactored the application over six versions by programming multiple abstraction layers, reducing complexity and improving extensibility.

EnviroSearch

Sep 2021 - Oct 2021

Hackathon Project | Hack the Valley V | [↗](#)

- Collaborated on a **four-person team** using **Git** by utilizing Google Custom Search **JSON API**, developing an **android app** to assess corporations.
- Engineered input-driven **RESTful requests** by leveraging **Android Studio** and **Java's .NET** and **JSON** libraries, integrating web crawling capability for hundreds of results.
- Increased team efficiency by performing 15+ code reviews and application testing, minimizing input and system errors.

BookBees

Jan 2022

Personal Project | [↗](#)

- Designed reusable, stateful components using **React.js**, **HTML**, and **CSS**, generating an interactive and responsive UI for small businesses.
- Built and deployed a single-page beekeeping application using the **React-Router** and **MUI** libraries, minimizing latency and maximizing component customization.

Experience

Infokidz Academy

2017

Instructor and Course Developer

- Architected a **robotics** course using **visual programming language** and robots, structuring 23 activities.
- Taught six students by practicing excellent verbal and written communication skills, receiving outstanding student-parent satisfaction.

Education

University of Saskatchewan, Saskatoon, SK

Sep 2021 - Present

Bachelor of Science, Computer Science, GPA: 3.9/4.0

University of Toronto, Toronto, ON

Sep 2020 - Aug 2021

Honours Bachelor of Science, Computer Science, Mathematics, Statistics