NAMAN UTTAMCHANDANI

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SKILLS

Programming Languages:	Rust, JavaScript/NodeJS, Java, C++, C, Python, SQL, ASM
Technologies:	ExpressJS, ReactJS, SocketIO, Tailwind CSS, ViteJS, Pandas, Scikit-Learn, SDL2, WASM, SQLite, MongoDB, Git, Docker, Digital Ocean
Soft Skills:	Leadership, Integrity, Discipline, Communication, Ambition, Compassion

TECHNICAL PERSONAL PROJECTS

Iron Chip 🔗 — *Rust, SDL2, WASM* —   Apr 2023

- **Virtual machine** that models the CHIP-8 architecture and executes all instructions targeted for that system. Implemented the interpreter for CHIP-8 programs in **Rust** for more precise system-level manipulation.
- Developed multimedia layer with **SDL2** for cross-platform compatibility.
- Deployed the virtual machine to the web by compilation to **WASM** and rendering via **WebGL**, this causes **native performance** on supported web browsers, without using the DOM.

Impostor 🔗 — *ExpressJS, SocketIO, SQLite, NodeJS, PUG, PassportJS, JWT, CSS* —   Dec 2022 (In Development)

- Web application inspired by Turing's logical thought experiments described in his paper, "Computing Machinery and Intelligence". A user must analyze the conversation of 2 entities, 1 being a human, and the other an NLP model.
- Implemented web app using the **MVC** design pattern with **server side rendering**. Using the **Pug** template engine for rendering web pages on the server.
- Established real-time communication between users using **SocketIO**.
- Implemented user authorization and authentication using **JWTs**. Reduced overhead and running server costs by implementing a **stateless design**.

Personal Portfolio 🔗 — ReactJS, Tailwind CSS, ViteJS —   Dec 2022

- Personal website displaying an array of information about myself and currently deployed projects.
- Created a single page application using **ReactJS** and **Tailwind CSS**, leveraging the **ViteJS** build tool to optimize development time.

EXPERIENCE

Undergraduate Teaching Assistant (TA)   Jan 2023 - Apr 2023
University Of British Columbia   *Vancouver, BC*

- TA'd the 200 level Software Construction course, teaching **Object Oriented Programming, Test Driven Development** and various **Design Patterns** in **Java**.
- Led labs with **40+** students, guiding and mentoring them through the practical applications of **TDD, OOP,** and various **design patterns** by applying them to their term project.
- Held office hours where I debugged students' code and cleared confusion of **software design principles**.
- Assisted the professor in lectures with **150+** attending students by answering questions, quickly debugging student code, and clearing confusion around lecture topics.

Leader of Committee of Adolescence   Jan 2020 - Dec 2020
I.P.N.J.   *Willemstad, Curacao*

- Led the committee to incorporate and execute projects aimed at building the youth community at the church for the glorification of Jesus Christ.
- This position involved me leading a group of people, collaborating with other committees to carry through events and meet deadlines, all under the authority of God and for God.

EDUCATION

University of British Columbia, 2nd Year   Expected 2025
Bachelor of Science, Computer Science

- Dean's List (**80%+** average)