

Profile

After excelling in a technical role as a chip verification engineer, I am eager to pivot towards a new challenge in **software engineering**. With a solid foundation in **Python and C programming**, I craft robust and scalable software solutions leveraging my analytical mindset and problem-solving skills. I am committed to expanding my modern programming languages and frameworks, applying my background in hardware verification to the dynamic world of software development. Currently I am seeking a software engineering role, where I can build impactful and sustainable software solutions using my tech acumen and passion for innovation.

SKILLS

- Software Programming Languages: C++, C, Python, HTML, CSS, JavaScript, Verilog
- Software Frameworks and Libraries: React, Express, Node, MongoDB, OpenCV
- Software Applications: AutoCAD, Microsoft Office, OpenCV, MATLAB
- Operating Systems: Linux, Unix
- Soft skills: Adaptability, Problem-Solving, Communication, Time-Management

ACADEMIC PROJECTS / MODULE PROJECT

General Assembly Blog [GitHub Website](#) April 2024

- Developed a full-stack web application using the **MERN** (MongoDB, Express.js, React.js, Node.js) stack.
- Implemented **JWT** (JSON Web Token) authentication for secure user authentication and authorization.
- Leveraged React.js for the **frontend user interface**, Node.js and Express.js for the **backend server**, and MongoDB for the **database management**, ensuring a robust and scalable application architecture.

Car Rental Website [GitHub Website](#) March 2024

- Independently developed a modern car rental website using **React and Tailwind CSS**, showcasing my proficiency in **front-end web development**
- Through **API integration** and performance optimization I ensured a seamless browsing experience for users

Whale Shark Game [GitHub Website](#) Jan 2024

- Independently developed an engaging whale shark game using **HTML, CSS, and JavaScript**, showcasing my proficiency in **front-end web development**.

Development of Android Application for Matrix Operations [Report](#) Aug 2022 – May 2023

- Used **Dart Programming** (Flutter) to design, code and develop application for educating and inspiring students to learn and appreciate matrix arithmetic and calculations (i.e., +, -, %, / ?).

WORK EXPERIENCE

Infineon, JumpStart Graduate Program Jun 2023 -- Present

- **Digital Enterprise Services Team** June 2024 – August 2024
 - Scripted **Python** code to process input from Excel sheets.
 - Generated graphs and charts based on necessary columns from the input data.
- **Electrical Failure Analysis Team** March 2024 – May 2024
 - Learned about the boundary scan tool functionality.
 - Developed code in Logic Built in Self-Test(LBIST) , like **C programming**, for electrical failure analysis.
- **Chip Verification Team** Jun 2023 – February 2024
 - Executed verification plans by developing **Python** test cases.
 - Coded testbench components for GPIO IP and SPI IP in **Verilog and System Verilog**.
 - Collaborated with team members to understand relevant functional and safety-related requirements.

EDUCATION

General Assembly Bootcamp | **Software Engineering** Dec 2023 – June 2024

Nanyang Technological University (NTU) Aug 2020 – Jun 2023

- [Bachelor of Engineering \(Electrical and Electronic Engineering\)](#)
- **Honours (Merit)**
- Specialization: **Info-Communications Engineering (Computer Engineering)**
- Relevant modules: Data Structures & Algorithm, Web Application, Software Engineering

Singapore Polytechnic (SP) Apr 2015 – Feb 2018

- **Diploma in Aerospace Electronics**
- **CCA GOLD Awardee**
