

David Sambilay

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EDUCATION

San Jose State University

1 Washington Sq, San Jose, CA

Software Engineering, B.S.

August 2019 – May 2023

Honors: Magna Cum Laude (3.7 GPA)

Relevant Coursework

Object-Oriented Design, Data Structures and Algorithms, Machine Learning and Big Data, Database Management Systems, Computer Networks

SKILLS

Language: Python, Java, SQL, JavaScript/TypeScript, Node.js, HTML, CSS, C/C++, SystemVerilog

Framework/Library: React, Django, Spring Boot

Tool/Software: Linux, AWS, Postman, Git, Jira

Database: MySQL, PostgreSQL, Firebase, MongoDB

EXPERIENCE

Verification Hardware Intern

August 2023 - October 2023

DreamBig Semiconductor, Inc.

- Collaborated with a diverse team to verify an IPsec block, ensuring its functionality and security compliance
- Leveraged my object-oriented programming (OOP) background to quickly learn SystemVerilog and UVM for creating comprehensive testbenches
- Discovered a bug in the design through my UVM testbench development and filed a detailed bug report, resulting in its resolution
- Acquired proficiency in C socket programming, enhancing my grasp of networking concepts relevant to the company's infrastructure

PROJECTS

Mellow

- Worked with a team of 3 to create a minimalistic task management and scheduling application
- Utilized AWS to build a serverless framework to power Mellow
- Initiated and led the use of AWS Lambda (Node.js), API Gateway, and RDS to build a functional REST API that manages PostgreSQL database

Miscord

- Developed a Discord clone web application
- Utilized Firebase to implement user authentication, real-time messaging for 1-1 and group conversations, and file storage

Auction House

- Followed agile methodology and built an auction house web application that let users auction an item and bid on an item
- Developed the frontend using JavaScript and the React, and designed the ERD diagram for the application's database
- Produced a 3-tier application (React, Spring Boot, MySQL) with a server that displays changes in real-time