

CHRISTIAN MANIBUSAN

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Skills

Programming Languages: C++, C, Java, Python, JavaScript, GO, Solidity, HTML, CSS, Typescript
Tools: Jira, Docker, Kubernetes, AWS, Cloudflare
Operating Systems: Windows, Unix/Linux
Database: PostgreSQL, MySQL, Firebase, IPFS, MongoDB
Software Architecture: REST, Microservices, MVC

Frameworks: Spring, React.JS, Hardhat.JS, Express.JS, Flask, FastAPI, Next.js, Angular
Testing: JUnit, Mocha.js, Selenium, Jest
Version Control: Git, GitHub, Git Desktop
Workflow Tools: Slack, Confluence, Lucidcharts
Interpersonal: Collaboration, Passion, Detail Oriented

Professional Experience

Instructional Student Assistant

09/2022 to 12/2023

California State University San Marcos – San Marcos, CA

- Individualized tutoring to over 100 Computer Science students by conducting comprehensive assessments of learning needs, pinpointing challenging concepts, and devising targeted learning strategies using Socratic listening and engagement techniques.
- Held content training workshops for 20+ new and existing Computer Science tutors to help cultivate and strengthen core fundamentals. Included code review and debugging of projects with adherence to best coding practices.

Software Engineer Capstone Project - Blockchain-Enhanced Academic Record System

08/2023 to 12/2023

California State University San Marcos – San Marcos, CA

- Collaborated with over 4 developers to conceptualize, design, and implement a comprehensive academic record storage and verification solution encompassing both frontend and backend components that could support 10000+ students annually
- Employed methodologies to adapt to evolving project requirements, ensuring flexibility and responsiveness throughout the software development life cycle, condensing the development process by 20%.
- Conducted and organized 3 weekly team meetings and meetings with stakeholders to gather customer needs, discuss product features, and assign tasks, all while keeping open communication and maintaining alignment with project objectives.
- Produced 5000+ lines of code and took on lead roles in the backend development and smart contract creation and integration.

Education

Bachelor of Science: Computer Science

08/2019 to 12/2023

California State University San Marcos - San Marcos, CA

Projects

PELE, Learning Platform, <https://github.com/letriandrew/PELE>

Python, JavaScript, Node.JS, FastAPI, React.JS, MUI, PostgreSQL, Docker, Docker Compose, OpenAI API, Cloudflare Tunnel, EC2

- Launched a **dockerized** learning platform application on **EC2** using **FastAPI**, **React**, and **PostgreSQL** with a goal to support a 1000+ user base.
- Utilized Cloudflare's **tunnels** and **DNS** services to secure and publish the application.
- Engineered recording and transcribing functionalities followed by generating questions based on the user's transcript using **OpenAI API** and **MediaRecorder API** to both invoke critical thinking and reinforce a user's understanding of the subject.
- Implemented **PostgreSQL** database with automatic migrations using **Alembic** and ORM functionalities and data validation through **SQLAlchemy** and **Pydantic** supporting large scale data transfer for 50+ active users.
- Enforced page and endpoint security through CORS and custom middleware utilizing **JWT** and browser cookies.

Blockchain-Enhanced Academic Record System, <https://github.com/kikijee/Blockchain-Academic-Records>

Solidity, JavaScript, Node.JS, Express.JS, React.JS, MUI, Hardhat.JS, IPFS, PostgreSQL, Apache, EC2, Super Test, Jest

- Developed a decentralized web application with a team of developers for the storage and verification of educational records utilizing **Hardhat.JS** for smart contract creation and testing, and decentralized storage solution **IPFS** for content based addressing of educational records.
- Reduced costs of official transcript production by over 80%.
- Implemented 6 secured pages and 10+ endpoints using best **JWT** practices, designed architecture based off **MVC** pattern through **Express.JS** and **React.JS**, secured smart contract functionality and censored sensitive data on the blockchain, introduced a simple and easy way for storing a record, verifying a record, and retrieving a record.

Gettr, Student Social Media Web Application, <https://github.com/Peggy-works/GettrProject>

Java, JavaScript, Spring, React.JS, MUI, MySQL

- Led a team of developers and developed a social media web application for CSUSM students and faculty to communicate with one another on school and/or personal projects.
- Developed over 6000+ lines of code to both frontend and backend services.
- Designed and implemented a **RESTful API** to handle **HTTP** requests aiming to support a 10000+ user base using **Spring Data JPA** and **Spring Web**, incorporated **STOMP** protocol for direct messaging with **Spring Web Socket** and **stomp.js** ensuring proper data handling for 10000+ users, while ensuring security through the integration of **JWT** token functionality with **Spring Security**.