Michael Xia

(917) - 520 - 5546 | michaelxia29@gmail.com | linkedin.com/in/michaelxia29 | github.com/michaelxswe

EDUCATION

Binghamton University

Bachelor of Science in Computer Science   May 2023

TECHNICAL SKILLS

Languages: Python, Java, JavaScript, C++
Frameworks: FastAPI, Spring Boot, Express, NextJS
Libraries: React, Pandas, SQLAlchemy, Hibernate
Databases: PostgreSQL, MySQL, Redis, MongoDB
CI/CD: Aws CloudFormation, Azure Pipeline, GitHub Action

PROFESSIONAL EXPERIENCE

Software Engineer Intern | Symetra   Bellevue, WA

Python, FastAPI, PostgreSQL, Docker, Aws ECS, Azure DevOps Services   May 2023 - Aug 2023

- Contributed to the development and optimization of RESTful APIs for a microservice.
- Designed unit tests and integration tests with more than 90% code coverage.
- Refactored and modularized parts of the existing code base, reduced test files by 1/5 while maintaining code coverage.
- Designed CI/CD pipelines to automate testing and deployment in different environments.
- Created API documentation and specifications.

Software Engineer Intern | NASA New York Space Grant   Owego, NY

C++, JavaScript, Express, MySQL, Arduino Uno   Jun 2022 - Aug 2022

- Collaborated with Lockheed Martin engineers on the development of a water filtration system.
- Implemented features for detecting collisions and water leaks within the system.
- Developed a RESTful API that transfers data collected by Arduino Uno to a MySQL database.

PROJECTS

My Portfolio

https://portfolio-mx.netlify.app

CI/CD Pipeline

https://github.com/michaelxswe/fast-api

Python, FastAPI, PostgreSQL, Docker, AWS, GitHub Action

- Developed a CRUD application using FastAPI, integrated with a PostgreSQL database, focusing on create, read, update, and delete functionalities.
- Implemented GitHub Actions to automate comprehensive CI/CD pipelines, including running tests, provisioning AWS ECR infrastructure, and managing Docker image builds and updates, enhancing efficiency and reliability of deployments.
- Implemented comprehensive unit and integration testing, achieving 100% coverage, ensuring reliability and robustness of the application.

Task Manager

https://task-tracker-self.vercel.app

Typescript, NextJS, Radix Ui, Tailwind CSS, Prisma, PostgreSQL

- Designed and developed a full-stack task management application using Next.js, Prisma, and Radix UI, enabling efficient task and team management with a modern, user-friendly interface.
- Integrated Zod for robust server-side validation of task and team data, ensuring data integrity and providing user feedback on input errors.
- Implemented RESTful API endpoints for task and team operations, including creation, update, and deletion, leveraging Next.js API routes for seamless server-side processing.
- Utilized Radix UI components to create a responsive and accessible user interface, enhancing user experience with dynamic filters, task priorities, and status badges.