

Kirk Flores

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EDUCATION

Private Tutoring / Seattle WA

09/2022 - Present

- 1 on 1 Private tutoring sessions from Software Engineer in Fortune 100 company.

Relevant Topics:

- SDLC
- Code Readability
- Architectural Patterns
- Test-Driven-Development
- CI/CD
- Internationalization
- Design Patterns
- Data Structures & Algorithms

SELECTED PROJECTS

GIS-Data-Visualizer(Web Application)

05/2023 - Current

- Web Application that visualizes population and county employment level on an interactive 2D map of the world.
- Integrated React, TypeScript with Esri's **ArcGIS Maps SDK** to render and customize API data on the map.
- Displayed data is handled through React Context, combined with the fetch API.

Personal-Investment-Helper(Full-Stack Web Application)

02/2023 - 04/2023

- Dashboard that links multiple financial Web APIs together leveraged for investment decisions.
- Developed stock charts with D3.js integrated with React, and handles historical stock data with Python-Flask.
- Implements **Unit** and **Integration tests** for components and application state managed using React Context.

Users-Habit-Tracker (Full-Stack Web Application)

12/2022 - 01/2023

- Web Application setup with an **MVC Architecture** that allows users to signup, login and track their habits.
- Implements **RESTful API Architecture**, and JWT Authentication to match users with habits upon login.
- Utilizes React, TypeScript for Front-End, Python-Flask for Back-End, MySQL for Database. Deployed with AWS EC2.

Maze Solver

09/2022 - 11/2022

- Interactive application that lets users draw a maze with obstacles, and solve with algorithms such as BFS and DFS.
- Written in HTML, CSS, JavaScript for the Front-End. Manually animated with JavaScript.

EXPERIENCE

Professional Programming Tutor / Online

04/2023 - Current

- Individual Instruction: Delivered personalized one-on-one instruction to students on key JavaScript principles, terminal navigation, git/github, and setting up VS Code as an integrated coding environment.
- Debugging/Problem Solving: Guided student through debugging JWT authentication and user sessions issues.

Youth Rush / Summer Leadership Program

07/2019 - 10/2019

- Helped in organizing and leading a team of six by positioning them in locations that will play in their strengths.
- Improved self-confidence and social skills by distributing books door to door that help with mental, physical, and spiritual problems.

SKILLS & TECHNOLOGIES

Technical Skills

- Full-Stack Web Development and Deployment
- UI Design (Figma)
- Unit and Integration Testing(Jest, React Testing Library)
- Git/GitHub Desktop
- RESTful API Development(Flask)
- OOP and Functional Programming
- Linux/Unix Environments (Ubuntu)
- AWS EC2 Hosting
- Code Readability and Design Principles
- Design and Architectural Patterns(MVC)
- Data Structures and Algorithms

Languages: Python, C#, JavaScript ES6,

TypeScript, CSS, HTML5

Front-End: React, NextJS, JQuery, Framer

Motion, Jest, Babel, Vite, CSS Modules,

Bootstrap, Tailwind, Webpack, React-Router

Back-End: Python Flask

DevOps: AWS

Hosting Services: AWS EC2

Testing: Jest, React Testing Library

Databases: MySQL, Excel

Design tools: Figma