

# SAMUEL MATLOCK

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## EXPERIENCE

### FAST Enterprises

2023 – 2024

*Implementation Consultant (Software Developer)*

UT

- Launched new registration page for all Utah businesses with a 40% faster back-end process for state workers.
- Redesigned individual tax returns by removing over 60% of clicks for users which also saved error costs for the state.
- Directly trained 8 public-facing state employees regularly on 15+ features I launched through our SCRUM cycle.
- Optimized MS SQL database for Married Filing Jointly taxpayers resulting in 35% faster processing times for returns.
- Consulted with elected Utah officials to implement 20+ legislation-required adaptations to taxation processes.
- Applied end-to-end testing, unit testing, and performance testing to complete 180+ code reviews.
- Wrote 36 custom, easily executable SQL scripts for non-technical state employees to run scheduled reports.
- Presented 10-15 core software changes to management and state employees with clear, succinct summaries.

### Magikid Robotics & Code Ninjas

2021 – 2023

*Coding Instructor I & II*

CA

- Led instruction for 7 Python, JavaScript, and Scratch courses for K-12 students learning coding & robotics.
- Designed 84 units of company-wide curriculum for Python & Lua while advertising coursework to 100's of clients.
- Mentored 300+ high-schoolers learning VEX IQ/EXP Robotics & basics of object-oriented programming.

### Tech Elevator

2021 – 2022

*Software Engineer Cohort*

CA

- Wrote roughly 18,000 lines of code for apps in Java, SQL, JavaScript, REST APIs, and more with Senior Developers.
- Studied and practiced core developer tools like command line interfaces, git version control, and debugging/testing.
- Led 20-30 group programming sessions and was chosen to present capstone project to senior leadership and peers.

### El Paso Chamber of Commerce

2019

*Software Engineer Intern*

TX

- Managed 2 office softwares, contributed to 25+ updates to company site, and led technical training for 16 employees.
- Designed high quality media for 4 client events in Adobe Suite and studied database configuration for 400+ customers.

## SKILLS

**Languages:** Java, Python, JavaScript, TypeScript, SQL, JavaScript, VisualBasic, CSS, Lua

**Frameworks:** React.js, Node.js, Next.js, FastAPI, Ruby on Rails, Vue.js

**Libraries:** Pandas, NumPy, Matplotlib, jQuery, ChakraUI

**Developer Tools:** Git, CLI's (Bash, Zsh, PowerShell), Docker, Kubernetes, Vercel, Linux, AWS, VS Code, Jira, AGILE, SCRUM, Visual Studio, VIM, JDBC, PyCharm, IntelliJ, Postgres, MySQL, MS SQL, Google Suite, Adobe Suite

## PROJECTS

### Student Management System | Java, Apache, MariaDB, XAMPP, Git

- Reduces Magikid Robotics management's registration errors by roughly 50% by storing data in relational database.
- Streamlines instructor operations by sorting student information leading to better student-instructor relationships.

### 'NimBot' Chat AI | Python, PostgreSQL, Repl.it, REST API, Webhooks

- Real-time interactive text bot that plugs into any Discord server and offers GitHub repo monitoring and more.
- Emulates ChatGPT using discord.js and a Rest API connected to the gpt-4 model from Open AI.

### 3D List Visualizers | Next.js, TypeScript, Chakra, MDX, Vercel, Git

- 3D interactive and responsive display of books, music, and movies using conditional rendering and CSS transformations.
- Leverages React's stateful logic to manage user interactions and list display statuses. Hosted at samuelmatlock.com.

## EDUCATION

### University of California, Irvine

2018 – 2022

*Bachelor of Arts in Political Philosophy*

CA

### Programming Courses

2014 – Present

*Harvard CS50, MIT OpenCourseWare, CodeAcademy, Udemy*