William Simmons

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Education

East Tennessee State University B.S. in Computer Science   **Graduated Dec 2022**

- Course Work: Software Engineering 1 & 2, Algorithms, Data Structures, Database, Web Development, Operating Systems, Computer Architecture, Information Security and Assurance

Projects

Fast Schedule – React, Tailwind, Node.js, Express, Postgres, TypeScript, Prisma

- Created an employee scheduler used Jersey Mikes to make the employees schedule. This saved my manager ~6% of manual labor a week.
- Built authentication using BCRYPT to store encrypted passwords in Postgres DB.
- Built authorization for certain routes on my REST API using JSON Web Tokens.
- Allowed users to view their shifts, request days off, change their availability, and give up shifts.

Pet Store – React, HTML, CSS, Redux, Bootstrap, Node.js, Express, SQLite

- Created a mock pet store that allowed for user and admin functionality.
- Allowed admin to create merchandise and add new pets for adoption and approve adoption applications.
- Allowed user to filter merchandise and add to their cart as well as apply to adopt a pet.
- Developed a REST API for front end CRUD operations as well as user authentication.
- Created the front end to consume REST API for displaying data to user as well as CRUD for Admin.
- Utilized scrum methodologies and agile philosophies in a team-based environment.

Processor Pipeline Simulation – C# Windows Forms

- Created a simulation of a CPU with its own Instruction Set Architecture, Cache, and Pipeline.
- Designed ISA that allowed for conditional, arithmetic, and branching logic and reads and writes.
- Developed L1 Cache to sit in between the backing store and the CPU.
- Developed a pipeline to read a program written in our ISA and run the program through are simulated CPU utilizing are cache and pipeline.

Skills

- Languages/Frameworks: JavaScript, TypeScript, Tailwind, C#, MYSQL, HTML, CSS, React, Redux, Express, Node.js, Bootstrap, Postgres
- IDEs/Version Control: Visual Studio, VS Code, MYSQL Workbench, Git, GitHub, Bitbucket

Employment

Jersey Mikes – Shift Leader   **September 2017 -Current**

- Led 4-5 Person team in fast paced, customer-oriented work environment.