

AARON ELAM

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EDUCATION

Bachelor's of Science in Computer Science

May 2021

Texas State University

- Major GPA: 3.2
- Dean's List Fall 2019
- EXE Computer Science Club, TXST Esports Team

SKILLS

Languages

C/C++, Java, Python, JavaScript, HTML/CSS

Libraries/Frameworks

React, Axios, Express, Node.js, Spring Boot

Tools

Linux CLI, Git, Docker, Postman, web servers, databases

PROJECTS

Crashpad

[Code] [Live Demo]

- Full-stack mock rental site providing an experience similar to Airbnb
- Supports CRUD operations with Axios in the frontend and Express routing in the backend
- Added security for users with JSON web tokens for authentication and Express middleware for authorization throughout
- Technologies used: React, Express, Node.js, MongoDB, TailwindCSS, JWT, nginx

Interactive CPU Datapath Simulator

[Code] [Live Demo]

- Built a web-based application to teach the MIPS instruction set architecture (ISA) to students
- Technologies used: JavaScript, jQuery, goJS, Bootstrap, Linux command line interface (CLI), Git, Apache2

Review Sentiment Analyzer

- Scraped IMDb reviews and used sentiment analysis to judge if a review is positive or negative
- Utilized JUnit testing to ensure accuracy
- Employed object oriented design and documentation using Unified Modeling Language (UML)

Web Server Hosting

- Used DigitalOcean to host game servers for online players
- Utilized Docker and Terraform to cut hosting costs by 50%

EXTRACURRICULAR

Competitions

- Selected by industry judges for 2nd place at the Virtual Reality Development Group's 2018 Hackathon. [Code]
- Competed at the 2019 Texas-Mexico International Collegiate Programming Competition (ICPC)

Member of .EXE CS Club

- Introduced members to tools that proved to improve their programming experiences
- Peer-mentored students from club to analyze course decisions and answer quick questions