

Aaron Elam

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EDUCATION

Bachelor's of Science in Computer Science

May 2021

Texas State University

- Minor in Applied Mathematics
- Dean's List
- EXE Computer Science Club, TXST Esports Team

SKILLS

Languages

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

Libraries/Frameworks

React, Express, Node.js, MongoDB, Spring

Tools

Linux CLI, Git, Docker, Postman

PROJECTS

Crashpad

[Live @ crashpad.dev]

- Rental web application built with the MERN stack
- Supports rental/listing operations with Axios in the frontend and Express routing in the backend
- Added security with JSON web tokens for authentication and Express middleware for authorization
- Containerized with Docker on a DigitalOcean virtual private server

Interactive CPU Datapath Simulator

[Live @ cpudatapath.com]

- 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)

Hacktoberfest Movie Reviews

[<https://github.com/5pez/react-movie-reviews>]

- Maintained a GitHub repository for students and first-time contributors to make their first pull request
- Implemented continuous integration with GitHub Actions for increased responsiveness

EXTRACURRICULAR

Awards

- Won 1st place in a SQL contest at Passport to Google 2020
- Top 16 at the 2019 Texas-Mexico International Collegiate Programming Competition (ICPC)
- Selected by industry judges for 2nd place at the Virtual Reality Development Group's 2018 Hackathon.
[<https://github.com/5pez/VRDGHack2018>]

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