

# Aaron Elam

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## EDUCATION

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### Bachelor's of Science in Computer Science

May 2021

Texas State University

- Dean's List
- EXE Computer Science Club, TXST Esports Team

## SKILLS

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<b>Languages</b>	C++, Java, Python, JavaScript, HTML/CSS, SQL
<b>Libraries/Frameworks</b>	React, Express, Node.js, MongoDB, Spring
<b>Tools</b>	Linux CLI, Git, Docker, Postman

## PROJECTS

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### Crashpad

[Live @ [crashpad.dev](https://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](https://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

[<https://github.com/AaronElam/movie-sentiment>]

- 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/AaronElam/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

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### Events

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

### 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