# **AARON ELAM**

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#### **SKILLS**

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

**Libraries/Frameworks**React, PostgreSQL, Spring Boot
Linux, Git, Docker, web servers

#### **PROJECTS**

# **Interactive CPU Datapath Simulator**

[Code] [Live Demo]

- · Built a web-based application to teach the MIPS instruction set architecture (ISA) to students
- · Technologies used: JS, 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)

# **Parallelizing Fractal Problem**

- · Used GPUs in a distributed system to generate fractal images in parallel
- · The overall results achieved linear speed up as the number of nodes increased
- · Technologies used: MPI, OpenMP, and CUDA

#### **Web Server Hosting**

- · Used Digital Ocean to host game servers for online players
- · Utilized Docker and Terraform to halve hosting costs

#### **EXTRACURRICULAR**

#### **Member of .EXE CS Club**

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

# **Competitive Programming**

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

### **EDUCATION**

# Bachelor's of Science (B.S.) in Computer Science

**Texas State University** 

- · Major GPA: 3.2
- Dean's List 2019-2020

May 2021