Justin Thoreson

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Education

M.S., Computer Science | June 2023
Seattle University
GPA: 4.0
Outstanding CS Graduate Student Award 2023
Award for Research & Collaboration in STEM
Graduate Representative – Seattle University ACM

B.S., Computer Science, Minor in Data Science | June 2022
Seattle University
GPA: 3.953, Summa Cum Laude
Outstanding CS Undergraduate Student Award 2022

Relevant courses: Computer Networks, Parallel Computing, Distributed Systems, Physical Databases, Computer Graphics, Artificial Intelligence, Software Architecture

Skills & Qualifications

- C++, Python, TypeScript, JavaScript, Java, C#
- Git, Visual Studio, VS Code, JetBrains IDEs,
- Adaptability, communication, collaboration, critical thinking, problem-solving

Experience

Software Engineer | July 2022 – Present
Votegrity
- Configured backend functionality to election administration tool frontend
- Modified and polished UI previously implemented during Senior Capstone Project
- Instantiated new virtual machine from scratch by upgrading existing software
- React, JavaScript, Python, Azure, VS Code

Software Engineer Intern | June 2022 – May 2023
T-Mobile
- Codified architecture for scalable and automated API authentication and authorization assessment tool
- Configured multi-project CI/CD pipeline via YAML that helps several teams test APIs for authorization
- Submitted patent application for API assessment tool
- TypeScript, NodeJS, SQL, Postman, VS Code, GitLab

Tutor, TA, Grader – Computer Science | June 2021 – June 2022
Seattle University
- Algorithms and Java programming courses
- Tutored and graded 100+ students, formulated grading rubrics alongside several other TAs
- Provided constructive feedback to students via tutoring and grading
- Java, IntelliJ, Vim, Emacs, GitHub

Projects

Web Proxy
- Implemented HTTP request forwarding to origin servers via TCP connections
- Codified web page caching for successful HTTP responses
- Created and parsed HTTP requests and responses
- Python, Git, VS Code

K-means Clustering on MNIST Dataset Using MPI
- Clustered images of handwritten digits via Euclidean distance of greyscale pixel values
- Optimized clustering of images via parallelization using Message Passing Interface (MPI)
- Visualized similar digits via generating dynamic HTML output file
- C++, OpenMPI, HTML, Make, Valgrind, VS Code

DBMS Relation Manager
- Codified key Relational Database Management System (RDBMS) features and requirements
- Utilized open-source software for SQL parsing and file management
- Debugged C++ errors and memory leaks via Valgrind
- C++, Make, Valgrind, Git, VS Code

Portal Illusion
- Created a computer graphics illusion of a cube passing through a portal
- Utilized custom computer graphics framework
- Implemented shaders, textures, particles, and audio output
- C++, GLSL, OpenGL, Visual Studio

Votegrity SaaS Solution
Senior Capstone Project – Seattle University
Sponsor: Tom Thomas – Votegrity CEO
- Collaborated with capstone team to design an election administration UI
- Communicated with sponsor to create UI wireframes
- Codified election administration UI by establishing foundation for critical functionality
- React, JavaScript, NodeJS, VS Code, Figma

Image Processor API
- Utilized a RESTful API to process image transformations
- Created with emphasis on architectural design patterns
- C#, Python, TypeScript, React, Flask, REST, VS Code

React Portfolio | exulgor.com
- Created my own personal portfolio website
- Deployed site build to the web via GitHub Pages
- Configured UI to be accessible on desktop and mobile
- React, TypeScript, NodeJS, GitHub, VS Code