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
President's List & Dean's List

Experience

Software Engineer | July 2022 – Present
Votegrity
- Implementing functionality for election administration tool
- Designed and codified UI for election administration tool
- Instantiated new virtual machine by upgrading existing software from scratch
- 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
- Submitted patent application for API assessment tool
- TypeScript, NodeJS, SQL, Postman, VS Code, GitLab

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

Skills & Qualifications

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

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

DBMS Relation Manager
- Codified key RDBMS features and requirements
- Implemented six milestones across three sprints
- Utilized open-source software for SQL parsing and file management
- C++, Make, Valgrind, Git, VS Code

K-means Clustering on MNIST Dataset Using MPI
- Clustered MNIST images via Euclidean distance of greyscale pixel values
- Parallelized k-means clustering via MPI
- Visualized MNIST clusters via generating HTML output file
- C++, OpenMPI, HTML, Make, Valgrind, VS Code

React Portfolio | exulgor.com
- Created my own personal portfolio website
- Deployed site build to the web via GitHub Pages
- Configured custom domain via GoDaddy
- React, TypeScript, NodeJS, GitHub, VS Code

Votegrity SaaS Solution
Senior Capstone Project – Seattle University
Sponsor: Tom Thomas – Votegrity CEO
- Created net new election administration tool
- Collaborated with a team to design election admin tool
- Codified election administration UI by establishing foundation for critical functionality
- React, JavaScript, NodeJS, VS Code, Agile, Scrum

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

Predicting Stock Market with Sentiment Analysis
- 2nd place - HackSU February 2022
- Analyzed finance articles via web scraping and NLP
- Compared sentiment analysis score to stock price changes
- Python, VS Code