

# Justin Thoreson

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## Education

**M.S., Computer Science** | Anticipated June 2023

Seattle University

GPA: 4.0

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

## 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 – Present

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

## Honors, Awards, Extra Curriculars

- President's List x8 – Seattle University
- Dean's List x9 – Seattle University
- Skills that Shine Mentee & Baccalaureate Scholar – WSOS
- Running Start – Everett Community College

## 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, Telnet, 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