

SHAUN JORSTAD

484.649.7528
jorstadsd17@gcc.edu
<https://shaunjorstad.me>
[GitHub.com/shaunjorstad](https://github.com/shaunjorstad)

Education

B.S. Computer Science	Grove City College	Aug 2017 - May 2021
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Coursework: Data Structures, Adv. Algorithms, Parallel Computing, Database Mgmt, Operating Systems, Automata Theory, Comp. Architecture, Prog. Languages, Machine Learning (Spr), Artificial Intelligence (Spr), Software Eng., IOS, Android, Big Data

Campus Involvement: ACM Treasurer, CS tutor, TA for Operating Systems

Projects

Hybrid Parallelized Simulation /w data visualization	C, OpenMP, OpenMPI
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Simulated thermal conduction within a metal plate to convergence through parallel Jacobi iterations & generated heat map visualization.

- Decreased simulation runtime by 78% and optimized memory efficiency via multi-threading and multi-processing across a Beowulf cluster of processors
- Engineered a Beowulf cluster of 4 processors to execute the hybrid parallelized simulation

Android App: Dog Adoption Social Media	AndroidX, Kotlin, Firestore
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Dog shelter social media app for community members to find dogs for adoption.

- Designed and optimized UI/UX
- Implemented user account creation and authentication
- Integrated datastore to support tracking user actions and shelter dog profiles

IOS App: Group Restaurant App	Swift UI, Firestore
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App that allows signed in users to create or join friend sessions. The creator of a session chooses a radius and time limit. Once started, all users swipe left or right on cards of restaurants fitting the criteria. A common destination is chosen and selected for the group to eat at.

Cross Platform Simulation App	Java, JavaFX, FXML, Scrum
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Simulation that calculates the optimal drone delivery packing algorithm for a campus cafe drone delivery system.

- Designed and optimized UI/UX from wireframes, mockups, user stories and flow diagrams
- Built intuitive data bound UI in JavaFX, FXML, CSS

Web App: Ecommerce Website	Javascript, Python, Flask, Jinja, SQL
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Website supporting users to post and purchase items.

Professional Experience

Software Engineer Intern	Booz Allen	(Cancelled over pandemic) 2020
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Software Engineer Intern	Thermo Fisher	(Cancelled over pandemic) 2020
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Computer Services Technician	Grove City College	Aug 2018 - Present
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Skills

Languages: Java, Kotlin, Swift, Python, C, HTML/CSS/SASS, Javascript, SQL, Bash

Tools: Git, Linux, React, Firestore, MongoDB, AndroidX, JavaFX, OpenMP, Pthreads, OpenMPI, Bootstrap, JUnit, Jetpack, Flask

Soft: Ui/Ux design, Wireframing, Prototyping, User Stories, Flow Diagrams, Project Management, Agile, TDD