

SHAUN JORSTAD

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

Skills

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

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

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