

# SHAUN JORSTAD

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

## PROJECTS

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### Puppr

AndroidX | Kotlin | Firestore

Unpublished android application allowing for dog shelters to create profiles for dogs awaiting adoption with their community. Users interact with dog profiles in a Tinder like user experience

- Designed the ui and ux of the application
- Implemented user account creation and authentication via Firestore
- Integrated datastore with profiles to track user actions and allow shelters to create dog profiles

### Big Data Visualization /w Hybrid Parallelism

C | OpenMP | OpenMPI

Simulated thermal conduction within a metal plate to convergence through parallel Jacobi iterations

- Analyzed performance of various multi-threading and multi-processing implementations to optimize runtime and memory efficiency
- Engineered a Beowulf cluster to execute the hybrid parallelized simulation
- Generated visual heatmap of converged plate

### Drone packing Simulation

Java | JavaFX | FXML | Scrum

Simulated drone packing and delivery of food orders on a college campus. Compared the performance of different packing algorithms and displays results to user.

- Team implemented agile practices to optimize performance
- Constructed UI/UX wireframes, mockups and user stories with flow diagrams
- Built the front end with JavaFX, FXML, CSS
- Bound the frontend to the backend simulation settings

## PROFESSIONAL EXPERIENCE

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### Computer Services Technician

Grove City College Computer Services

Bash | Powershell

- Researched network communication protocols and wrote shell scripts to install previously unavailable campus resources on Unix like Operating Systems
- Wrote scripts to test various computer components and minor system administration
- Accurately analyzed and resolved bugs in various kernels and college affiliated applications
- Identified hardware failures on student devices and initiated repairs
- Effectively communicated with non technical clients

## EDUCATION

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BS in Computer Science

Concentration in Data Science  
Concentration in Mobile Development  
Grove City College  
2017 - 2021

Undergraduate coursework

Data Structures	Android Programming	Software eng.
Algorithms	Automata Theory	
Parallel Computing	Comp. Architecture	
Database mgmt	Prog. Languages	
Big Data	Operating Systems	

### - ACM Treasurer

- managed funds of the chapter
- organized events bringing guest speakers and alumni onto campus to share their experiences

### - Computer Science Tutor

- volunteered at weekly ACM computer science tutoring events to help underclassmen learn the basics of computer science

## SKILLS

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### Languages

Java

Kotlin

Scala

Python

C

C++

HTML

CSS / Sass

Javascript

SQL

Bash

### Tools

Git / Github

Linux

Firestore

MongoDB

AndroidX

JavaFX

OpenMP

Pthreads

OpenMPI

Bootstrap

### Soft

Ui/Ux design

Wireframing

Prototyping

User Stories

Flow Diagrams

Project

Management

Agile / Scrum

TDD