

Joseph Gerona

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Education:

University of Washington

September 2016 - December 2021

Bachelor of Science in Mathematics

Minor in Computer Science and Software Engineering

Through a degree in mathematics and a minor in software engineering, I have knowledge in software design/engineering, physics, and statistics. Due to the nature of mathematics courses, I have developed skills which allow me to break down and interpret technical information into a common, and user friendly language. Other key skills which I have developed here are:

- Object Oriented Programming
 - Java, C++, Agile/scrum, Git
- Statistics
 - R, Python
- Data Analysis/algorithm development
 - Matlab

UW Professional and Continuing Education

December 2022 - June 2023

Coding Bootcamp

- Web Development
 - HTML, CSS, JavaScript, npm, JQuery, SQL, ORM,

Projects:

Bank account - Data Structures and Algorithms

- Written in C++ on Linux machines which applied topics such as: class designing, queues, and binary search trees.
- Successfully created a banking system in collaboration with 3 other students which allowed for users to transfer, deposit and withdraw money.
- Used Github for collaboration version control

Build A Poem - Web Development

- On a MVR model, successfully created an application which implements integration between frontend and backend web development.

Teaching Computing Concepts - K-12 Computing Education

- Children became able to understand concepts in Object Oriented Programming
- Used MIT Scratch for children to understand data structures and concepts.

Research: The Subgradient Method

I researched algorithms and techniques to implement changes to the subgradient method. I successfully optimized the program to make full use of recursive backtracking and line search. I also made flexible/agile test programs to allow for different scenarios.

- Applied Concepts and tools:
 - Algorithms, Calculus, Non-Linear Optimization, Numerical Analysis
 - Gradient Descent, Backtracking
 - Used LaTeX to organize graphs, charts and information in my reports.
 - Used Matlab to execute the algorithms, tests and create graphs.

Work Experience:

BrickRed Systems

August 2022 - December 2022

Received education/training in networking services. Specifically technologies such as:

- Networking, Docker, Kubernetes, Azure Kubernetes

Jackson Park Golf Course

March 2023 - Present

From the driving range to the pro-shop, I work in customer service/support to maintain equipment used by customers while also using the POS system for scheduling and sales.

- Opening, POS, Driving range equipment

MKG Seattle - Children's Martial Arts Instructor

August 2017 - July 2021

I became a leader and instructor for children; helping them develop their physical capabilities while also teaching about respect, discipline, and the rewards of hard work. The skills I have practiced here would be:

- Public speaking, Customer service/support, Organization, Time Management

Responsibilities:

- Administrative work, Martial arts instructor

Other Skills and Hobbies

- PC building 2018 - Present
 - Building/maintaining/upgrading custom personal computers