

EDUCATION

University of California, Santa Cruz
Bachelors of Science in Computer Science

Sept 2018 – June 2022
GPA: 3.48

EXPERIENCE

Software Application Developer Intern
CUNA Mutual Group

June 2021 - Present
Madison, WI

- Created SQL extract processes using Microsoft SQL Server from mapped XML/XSLT data feeds to queries
- Resolved 20% of security risks in life applications and generated static scans through Veracode
- Deployed and created releases in several pipelines to several environments using Azure DevOps
- Implemented API endpoints for .NET Core applications and converted application logging to HTTP requests

Web Developer and Research Assistant
Game User Interaction and Intelligence Lab

February 2021 - Present
Santa Cruz, CA

- Utilizing Vue.js and Web Apis to develop a research/web-based Multithreading simulator
- Developed Vue components with Javascript and designed visual modifiers through elements and SVGs
- Reviewed and resolved bugs through unit testing with Jest mocking and Vue Test Utils
- Resolved github tickets for adding new features and researched new implementation details

Harvest Leader and Data Analyst
Harvest Sacramento

October 2017 - April 2018
Sacramento, CA

- Tabulated site dimensions, harvesting data, and community events in Excel and Word
- Extrapolated seasonal projections from various community events and seasonal product availability
- Ensure customer availability before big events and curated necessary items for leaders on harvesting

TECHNICAL SKILLS

Languages: Java, JavaScript, SQL, C, C++, C#, Python, HTML/CSS

Software/Tools: Windows, Linux, Git, Docker, VS Code, Postman, Visual Studio, Microsoft Azure

Frameworks: Node.js, TensorFlow, Vuejs, Express.js, PostgreSQL, Docker, Scrum

PROJECTS

Distributed Fault-Tolerant KVS | *Node.js, Express.js, Python, Docker*

April 2021

- A causally consistent KVS supporting asynchronous HTTP requests through Express endpoints
- Metadata (VCs) propagation and broadcasting are implemented for data replication and causal consistency
- Created replicated KVS through Docker containers and tested replicated state through python scripts

Image To Text Translator | *Java, Maven, Tess4J, GCP Translation*

August 2020

- Developed in Java using a Maven build, Tess4J, and Google Cloud Translation API
- Makes API calls to Tess4J for OCR and then uses Google Cloud Translation
- Prompts a transparent JWindow overlayed over the images with text to be translated
- Improved text quality with OpenCV, resulting in a more accurate and detailed OCR

Genetic Pathfinding Simulator | *Java, Swing*

May 2020

- Java program that imposes natural selection on finding paths between a starting and ending location
- Uses angles and distances as movement vectors and multithreading to depict particles in GUI
- Optimized the pathfinding using distanced-based fitness resulting in fewer computed generations
- Implemented obstacles to generate complex paths and form intricate pathfinding

VOLUNTEER/POSITIONS

Summer STEM Tutor (William Land) - **500+ hours**

June-Aug 2016 | June-Aug 2017

Programming Languages Tutor and Grader - **100+ hours**

Jan-March 2021 | April-June 2021