RONALD CHHUA

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EDUCATION

University of California, Santa Cruz, (UCSC) Sept 2018 - June 2022
Bachelors of Science in Computer Science GPA: 3.48

EXPERIENCE

Software Application Developer June 2021 - Present
CUNA Mutual Group
- Mapped XSLTs to queries with Microsoft SQL Server to process MDFs
- Will be working with C#, .NET CORE, Microsoft Azure, etc
- Working with a SCRUM-based team to manage PBIs and features

Front-End Web Developer Assistant February 2021 - Present
UCSC GUII Lab
- Utilizing Vue CLI, Vuex, Web Apis to develop a research/web-based Multithreading simulator
- Building features through Vue/JS components, resolving github tickets, maintaining code base
- Black-box testing front-end components using Jest and Vue Test Utils

Harvest Sacramento Data Analyst October 2017 - April 2018
- 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

SKILLS

Languages: Java | C# | C | C++ | Python | JavaScript | SQL | HTML/CSS
Software and Tools: Windows | Linux | Git | Docker | VS Code | Postman | Eclipse
Frameworks: Node.js | TensorFlow | Vuejs | Expressjs | PostgreSQL | Docker

PROJECTS

Replicated Fault-Tolerant KVS April 2021
Node.js | *Express.js* | *Python* | *Docker*
- A causally consistent KVS supporting HTTP requests through Express endpoints
- Metadata (VCs) propagation and broadcasting are implemented for data replication and causal consistency
- Tested KVS, Replicas, etc through requests sent by python scripts

Tesseract Image Text Translator (OCR) August 2020
Java | *Maven* | *Tess4J* | *GCP Translation*
- 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 July 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
UCSC Programming Tutor/Grader - 100+ hours Jan-March 2021 | April-June 2021