Ryan Watkins

https://github.com/rdwatkin

Email : rdwatkin@outlook.com
Mobile : +1-858-880-5959

EDUCATION

University of California, Santa Cruz — Santa Cruz, CA
Bachelor of Science in Computer Science, Minor in Economics; GPA: 3.52 — *Sep. 2016 – Jun. 2020*

La Jolla Country Day School — San Diego, CA
High School Diploma; GPA: 3.94 — *Sep. 2012 – May. 2016*

EXPERIENCE

Software Intern — Jul. 2018 - Sep. 2018
Gemini Design — *Poway, CA*

- **User Interface Design**: Designed and implemented a serial communication port monitor using Microsoft Visual Studio C# which could send commands and receive data from USB.
- **Embedded Systems**: Developed firmware in C for a Nucleo F401re to communicate with the company's custom board over SPI and to send and receive data through a computer's serial communication port using USART thereby enabling the company to control their custom board from a GUI.
- **Scholarship**: Selected to receive the Gemini Design Engineering Scholarship at the end of the summer internship for my abilities to quickly come up to speed on new technologies.

IT Intern — Jul. 2017 - Sep. 2017
Patenaude and Felix APC — *San Diego, CA*

- **Cloud Work Environments**: Conducted researched on and assisted an office-wide shift from local machines to cloud-based desktops which saved the company money by replacing costly thick clients with more cost-effective thin clients.
- **Electronic Data Interchange**: Maintained and updated electronic client data daily to ensure the company information was always up to date.
- **Help Desk**: Promptly handled repair requests on a broad range of office technologies to maximize work space efficiency.

File Clerk — Jun. 2017 - Sep. 2017
The Watkins Firm — *San Diego, CA*

- **Billing**: Routinely updated the company's client billing logs to ensure company files were always current.
- **Documentation**: Maintained appropriate physical and electronic filing of professional legal documents.

PROJECTS

Client-Server File Transfer System: Secure file transfer system which properly handles fork requests, race conditions, and interactive commands in C++.

Web Browser: Single Pane lightweight web browser with GUI interface created with JavaFX.

Graphics Library: Graphics library for display, selection, and alteration of commonly used OpenGL designs in C++.

Simulated File Tree: Shell designed in C++ to navigate a simulated file tree hierarchy.

SKILLS

Languages: Java, C++, C, C#, SQL, LaTeX   **Technologies**: OSX, Windows, Unix/Linux

EXTRACURRICULARS

Computer Technician Club: Founder of the computer technicians club which taught its members the content required to pass the 220-801 CompTIA A+ Exam.

Cyber Patriots: Leading member of the LJCDS cyber security team which routinely competed in image security tournaments.

Volunteer Work: Frequently participate in local volunteer work with organizations such as The Santa Cruz Boys & Girls Club, Gault Elementry School, Capitola beach clean-up, etc.

Intramurals: Basketball and Volleyball