Jacob Byerline

San Diego, Ca - (619)341-9322 - jbyerline@gmail.com

GITHUB/LINKEDIN: github.com/jbyerline - linkedin.com/in/jbyerline

Education – San Diego State University

Degree: Computer Science, Bachelor of Science

Graduation Date Expected: Spring 2021 **GPA:** 3.5

Personal Achievement: Eagle Scout (June 2015) Venturing Summit Award (December 2018)

Coursework: Object Oriented Programming (Java, C++) - Assembly Language (HLA) - Embedded Systems (C) - Intermediate Data Structures (Java) - Advanced Data Structures (Java, C++) - Programming Languages (C, C++, Python, Fortran, Scheme) - Game Programming (C#, Unity) - Systems Programming (C)

Southwestern College

Degree: Computer Science, Associates of Science with Honors

Graduated: 2019 **GPA:** Overall 4.0

Work Experience

Adium Technologies, San Diego, CA

Co-Owner January 2017 to Present

- Install, maintain, and repair residential and commercial networks
- Remote administration of networks via **Eero Admin Console**
- Certify client's networks meet **Comptia A+** and **Network+** standards

Projects

U.C. Berkeley Graduate Student Project – Group Project

- Gather social media posts using Hashtagify **RESTfulAPI** in **C#**
- Utilized **Newtonsoft** library to read and write **JSON** files to create and save data
- Output data to .txt file with processed results by gender, age, and sentiment
- Produce data set that met predetermined standards

Model Cryptocurrency Blockchain – Group Project

- **LAN** Blockchain using **P2P** connections in **Java**
- Uses **Merkle Tree data structure** to create blocks
- Block is mined with **SHA-256 hashing algorithm** similar to Bitcoin

Drone Recon Project – Group Project

- Used **Java**, **JSP**, **HTML**, **JS**, and **SQLite** to create an interactive web-based simulation of drone recon of farmland conditions.
- Uses **Tomcat** web server to compile JSP, HTML and JS packages.
- Utilizes **Java Packages** and follows Java naming convention

Arduino Data Collection – Group Project

- Created an **Arduino** program in **C** to collect data from thermostat, potentiometer, and light meter, and exported data to .txt file
- Implemented a struct **Data Structure** in C to sort and convert **.txt** file to **.csv** file
- Developed **Matlab** program to input .csv file and produce graphs related to data set

Address Book – Solo Project

- Implemented a **binary search** in **Java** programming language to create search an address book

Skills

Software Development Environments: GitHub, Xcode, IntelliJ, Visual Studio, Eclipse, Arduino IDE

Software Technologies: RESTful API, Linux, SSH, P2P

Software Language Experience: Java, C#, C++, C, Python, HTML, HLA

Software Concepts: Agile Software Development, Source Control, Real-Time Development