

Jacob Byerline

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GITHUB/LINKEDIN/Portfolio: <http://www.jbyerline.com>

Education – San Diego State University

Degree: Computer Science, Bachelor of Science

Graduation Date Expected: Spring 2021 **GPA:** 3.71

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) - Computer Architecture (C) - Systems Programming (C) – Operating Systems (C) – Ethics in Computer Science – Advanced OOP (Java)

Southwestern College

Degree: Computer Science, Associates of Science with Honors

Graduated: 2019 **GPA:** Overall 4.0

Work Experience

Humana Digital Health & Analytics, San Diego, CA

Software Engineering Intern - April 2020 to Present

- **Jira** Administration and data integration into **Microsoft Power BI** using **Jira API** and **Python**
- **Data Analysis** and manipulation to produce **Data Set Visualizations**
- **Java** and **Groovy** Full Stack Development

Adium Technologies, San Diego, CA

Co-Owner January - 2017 to Present

- Install, maintain, and repair residential and commercial networks
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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
- 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 piloting
- 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
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Skills

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

Software Technologies: RESTful API, Linux, SSH, P2P, Git, Jira

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

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