

# Cody Pham

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## Education

University of California, San Diego  
Bachelor of Science, Computer Science

Anticipated Graduation - June 2018

## Technical Skills

**Languages:** Java, C++, C#, Python, HTML/CSS, JavaScript  
**Platforms:** Mac OS, Unix/Linux, Windows  
**Methodologies:** Agile Software Development, Object Oriented Design  
**Development Frameworks:** Android Studio, GDB, Git, IntelliJ, JIRA, Valgrind, Visual Studio

## Work Experience

### ***Software Development Intern***

June – September 2016

#### **Echo, A HealthStream Company**

San Diego, CA

- Designed and developed application plugins using C# to retrieve healthcare provider data from various state medical board websites into the Echo Credentialing database, which receives 16 million queries per year
- Performed plugin software upgrades to support image validation and verification
- Optimized search feature to detect and map aliases for healthcare providers, improving search result accuracy on the Echo provider database and eliminating the need for repeated requests
- Redesigned existing front end pages in the Echo Access web application using HTML, CSS and ASP to enhance page navigation and usability, which is deployed in 50% of hospitals in the United States

### ***Computer Programming Tutor***

January 2016 – Present

#### **UC San Diego Computer Science and Engineering**

San Diego, CA

- Wrote and tested solution code for Java programming projects and executed grading scripts
- Managed and hosted lab hours to aid students in debugging syntax and semantic errors in programming assignments
- Facilitated small group discussions to familiarize students with Java programming techniques and principles such as Object-Oriented Programming, Inheritance and Polymorphism

## Additional Projects

### **codypham.com**

- Actively developing, deploying and maintaining a personal website using HTML, CSS and JavaScript on GitHub

### **CoupleTones Android Application**

- Key member of location-based messaging project designed to wirelessly track, send and record location visits between paired Android devices
- Utilized Google Maps and Firebase APIs to log user-selected locations and visit history
- Successfully developed the application using Java by employing the Scrum process and Android Studio IDE

### **Dynamic Auto-Complete**

- Completed a C++ application that auto-suggests word or phrase completions based on user input and word frequency
- Implementation included a combination of custom dictionary tries and priority queues to optimize runtime efficiency

### **File Compression Program**

- Applied Huffman encoding algorithm to develop and implement a file compression program in C++
- Converted standard C++ priority queues from maximal to minimal priority queues

### **SPIS Image Manipulation Suite**

- Designed and developed a photo editing program using Python and leveraging the Python Imaging Library
- Implemented photo manipulation tools such as image color filtering, resizing, and various special effects