Patrick Paxson

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Student at UCSD interested in machine learning, robotics, music and biology. Passionate about computer science and engineering in general, experienced in a wide range of subjects, and eager to explore and learn even more!

LANGUAGES

Python
Java
C/ C++
C#
JavaScript
HTML
CSS
MySQL
Objective-C
PHP
SQL
Swift
Verilog
Assembly Language

OPERATING SYSTEMS

Mac OS
Linux
Microsoft Windows
Android
iOS

SOFTWARE SKILLS

TensorFlow
Robotics
Network Management
Git
Amazon Web Services
Testing
CUDA
REST API
JSON
CocoaPods
jQuery
Microsoft Azure

ADDITIONAL SKILLS

Communication
Teamwork
Leadership
Research
Mathematics
Presenting
Bioinformatics

EXPERIENCE

PRESIDENT/SYSTEMS ENGINEER • Triton Robosub
La Jolla, CA ▪ August 2018-Present

+ Founded an autonomous underwater vehicle **robotics** team at UCSD
+ Managed finances, logistics, and recruiting of a multidisciplinary team
+ Constructed and tested an autonomous submarine, focusing on networks
+ Developed an object detection algorithm with **TensorFlow** and **Python**

SOFTWARE INTERN • Qualcomm, Inc.
San Diego, CA ▪ June 2019- September 2019

+ Developed in **Python** to create a 5G testing route optimization algorithm
+ Created automated cron job email reports in **Python** to 5G testing teams
+ Tested UI and usability aspects of data visualization tools for internal use

SOFTWARE DEVELOPER • Advanced Technologies Integration, Inc.
San Diego, CA ▪ June 2018-Present

+ Developed an iOS digital checkup app with **Objective-C** and **CocoaPods**
+ Created a webpage using Microsoft Dynamics, **JavaScript**, and **CSS**
+ Managed a database and created queries using **PHP** and **MySQL**
+ Created handwriting recognition software with **TensorFlow** and **Python**

SOFTWARE INTERN • Lone Wolf Development, Inc.
San Diego, CA ▪ May-September 2018

+ Created RESTful API calls with **C#** programs
+ Tested API calls with **HTML** and **jQuery**
+ Researched cloud software and presented a compare/contrast report
+ Developed in a Microsoft Azure test environment using **C#**

EDUCATION

BACHELOR OF SCIENCE • University of California San Diego
La Jolla, CA ▪ September 2018-December 2021 (Expected)

+ **Double Major** in **Computer Science** and **Cognitive Science with Specialization in Machine Learning**
+ **GPA: 3.7**, Provost Honors, Earl Warren College Honor Society
+ Pursuing minors in General Biology and Music
+ President of Role Playing Games Club and Triton Robosub
+ Recipient of the TRELS research scholarship for Triton Robosub
+ Coursework: Advanced Data Structures (CSE 100), Design & Analysis of Algorithms (CSE 101), Introduction to Theory of Computability (CSE 105)