Yaacov Tarko

619 Landfair Ave., Los Angeles, CA 90024 | (310) 770-0051 | yaacov.tarko@gmail.com

Education:

University of California, Los Angeles   **Expected December 2018**
Bachelor of Science, Computer Science. Overall GPA: 3.83/4.00
Coursework includes: Algorithms & Complexity Theory, Computer Networks, Computer Graphics, Programming Languages, Artificial Intelligence, Software Construction Lab, Operating Systems Principles, Linear Algebra.

Technical Skills:

- Proficient in C, C++ and JavaScript. Experience with Python, Objective-C, and BASH.
- Experience with building web client apps (Node.js, Express, MySQL, Passport, D3.js, Bootstrap, Socket.io).
- Experience with architecting and building software solutions using agile development principles.

Professional Experience:

Tyvak Nano-Satellite Systems Inc., Irvine, CA   **Summer 2017**
Software Engineering Intern

- Developed features for ground control software, including front-end and back-end web systems and MacOS applications, to improve user experience and prevent operator error. (Node.js, Express, Socket.io, D3.js, Bootstrap).
- Implemented account-based authorization in a web application to control access to satellite telemetry and commands. (Node.js, Express, Passport, Connect-Roles).
- Helped build a data access layer in C++ to improve database query performance, and built a proxy in C++ and JavaScript to incorporate it into a Node.js server. (Node.js, MySQL, Fastcall).

Dovel & Luner, LLP, Santa Monica, CA   **Summer 2014**
IP Law Intern

- Analyzed patents, identified potentially infringing products, and communicated my findings to the firm's new matters department to assist them with case selection.

Activities:

Upsilon Pi Epsilon CS Honor Society, UCLA   **Fall 2016-Present**

- Tutored engineering students and designed practice exams and solutions in C++.

Unmanned Aerial Systems, UCLA   **Fall 2016-Present**

- Developed ground control software in Python to upload telemetry and target images from our aircraft to competition servers so our performance could be evaluated.

Engineering Projects:

Operating Systems Principles   **Winter 2017**

- Used C to write system-level programs for Linux. Solved problems related to I/O, file system design, and synchronization of multithreaded programs.
- Wrote a driver for an embedded IOT device in C.

Computer Networks   **Spring 2016**

- Created a file transfer application and implemented TCP on top of UDP using C++.
- Collaborated on design and implementation of router firmware to route IPV4 packets, including implementations of ARP for IP address resolution and ICMP for control message handling.