Jonathan Zaturensky

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Education

University of California, Los Angeles – Los Angeles, CA
- Major: Computer Science, B.S. expected June 2019 | GPA for CS&E courses: 3.64

Experience

AirMap – *Software Engineering Intern* – Santa Monica, CA (Mar. 2017 – Present)
- Developed embedded C++ SDK implementing AirMap APIs and services to be deployed on UAV drone systems such as the Intel Aero
- Created custom maps and data visualization servers that simulated the usage of core services in order to assist in successful integration with customer demos
- Collaborated with partners such as Rakuten and Drone Deploy to provide developer support
- Lead effort to test, document, and troubleshoot existing APIs

Green Hills Software (Integrity Security Services) – *Software Engineer Intern* – Irvine CA (Summer 2016, 2017)
- Participated in design and development of new architecture incorporating over-the-air firmware update service for V2V secure and efficient infrastructure by creating connection servers based on Open Mobile Alliance Device Management protocol stack
- Created script engine framework that significantly improved and accelerated server provisioning process
- Used GDB and assembly to reverse engineer and patch legacy library with new functionality, eliminating need to create new library and saving development time
- Developed test framework and tools for multithreaded load test of REST API
- Ported applications from older Node.js versions to LTS
- Created C/C++ library that implemented curl HTTPS requests using libcurl and OpenSSL

Skills

- **Programming languages:** C++, C, Node.js, JavaScript, Python, Java, Assembly, Unix Shell Scripts (Bash), HTML, PostgreSQL/MySQL
- **Software Applications / Operating Systems:** Visual Studio, Eclipse, Confluence, AWS, GDB, Git, OpenMP, MongoDB, Redis, NGINX, RabbitMQ/MQTT, SSL/TLS, PKI, TCP/IP, Linux, Windows, Mac OS
- **Foreign Languages:** Russian (fluent), Spanish (working proficiency)

Activities

- Coursera: Certified Python Programming course from Rice University
- Member of UCLA ACM Hack/NetSec and UCLA IEEE C3
- Co-founder of Computer Club in high school

Awards

- 2nd place: ACM and LUG Application Security Capture the Flag Event
- 3rd place: UPE Google Algorithm and Coding Challenge
- 3rd place: TBP Rube Goldberg Machine Competition
- International Baccalaureate Diploma

Projects

- Deployed backend to scrape nutritional data from UCLA dining hall menus/hours and provide REST API for Android mobile application
- Developed website and backend server to deliver real-time SMS notifications about class enrollment capacity
- Created embedded greenhouse monitoring system on Intel Edison using external sensors
- Developed heart rate monitor circuit and app using infrared LED emitter/detector with Arduino/LabVIEW
- Assisted in creation of GPS-enabled, cross-platform maps with Mappic.com