

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: 3.7

Experience

Viasat (Global Mobile Broadband Division) – *Software Engineer Intern* – Carlsbad, CA (Jun. 2018 – Present)

- Designed and currently implementing system to collect and transmit operational data from [mobile satellite terminals](#) in restricted bandwidth environment and distribute it to central servers on the ground
- Created consumer sentiment insight tool for digital marketing teams to store, analyze, and visualize data from online reviews about Viasat and competitors using natural language processing (NLP)

AirMap – *Software Technical Support Engineer* – Santa Monica, CA (Mar. 2017 – Present)

- Developed embedded C++14 SDK implementing AirMap APIs/services and utilizing MAVLink protocol to be deployed on UAV drone systems such as the Intel Aero
- Designed, developed, and released AirMap flight planning application for [DroneDeploy](#) with 4.8 rating
- 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 Auterion 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 [DLM server](#) provisioning
- 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

Skills

- **Programming languages:** C++, C, Node.js, JavaScript, Python, Java, Assembly, Unix Shell Scripts (Bash), HTML/CSS, SQL
- **Software Applications / Operating Systems / Protocols:** Visual Studio, Eclipse, Confluence, AWS, GDB, Git, OpenMP, MongoDB, Redis, NGINX, RabbitMQ/MQTT, SSL/TLS, PKI, OpenSSL, libcurl, TCP/IP, Linux, Windows, macOS, Docker, CircleCI, trompeloeil, Mocha, Express, Mapbox
- **Foreign Languages:** Russian (fluent), Spanish (working proficiency)

Activities / Awards

- Member of UCLA ACM Hack/NetSec and UCLA IEEE C3
- Won: LA Hacks 2018: Private Internet Access (PIA) Challenge – [Best Privacy Hack \(Breach Tracker\)](#)
- 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