Jonathan Zaturensky
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Education

- **University of California, Los Angeles** – Los Angeles, CA
  - Major: Computer Science and Engineering, B.S. expected June 2019
  - GPA for CS&E courses: 3.65
  - Coursework: Data Structures and Algorithms, Computer Architecture/Organization and Operating System Basics, Engineering Design, Software Construction Laboratory, Logic Design of Digital Systems, Electrical Engineering, Operating Systems Principles

Work Experience

- **Green Hills Software (Integrity Security Services)**, Irvine CA, Summer/Winter 2016-2017
  - Worked as an intern on various projects and designed scripts used for in-house tools
  - Utilized Node.js, Shell Scripts, Excel, and Confluence to create and document manufacturing tools that are currently being used for server provisioning process
  - Developed test program for multi-threaded load test of REST API
  - Created C/C++ library that implemented curl HTTPS requests using libcurl
  - Used GDB and assembly to reverse engineer and patch old library with new functionality
  - Added remote firmware update functionality to and updated existing web applications to be compatible with latest Node.js LTS version

Skills

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

Activities

- Coursera: Certified Python Programming course from Rice University
- Member of UCLA ACM Hack (introduction to Node.js and Android development)
- Member of UCLA IEEE C3 (web development)
- Co-founder of Computer Club in high school
- 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

Projects

- Created embedded Linux-based greenhouse monitoring system on Intel Edison using external sensors which relayed data to Node.js-run server and sent SMS notifications
- Developed heart rate monitor circuit and application using infrared LED emitter/detector with Arduino and LabVIEW
- Designed and documented GUI and implementation for puzzle application using Java as part of IB Diploma Computer Science project
- Assisted in creation of GPS-enabled, cross-platform maps with Mappic.com