

Michael K. Black

Problem Solver and Software Engineer

EXPERIENCE

Northrop Grumman, Redondo Beach — *Software Engineer*

2016 - PRESENT, Software Engineer (2018), Software Engineer Intern (2016-2018)

Full time software engineer after three consecutive paid internships. Worked with Java, pure JavaScript, TypeScript, Angular, MongoDB, NodeJS, NodeRed, NIST security policies, Jira, BitBucket, Git, RedHat and Debian Linux, and some scripting. Additionally gave demos, spoke at corporate meetings with customers, participated in code reviews, and worked both in a team and individually with both the agile and waterfall development methods. Learned how to manage time efficiently, how to pick up skills quickly, how to adjust to a flexible development strategy, and enhanced communication skills in both small team and large corporation settings.

California State University, Long Beach — *Computer Science Tutor*

2016 - 2018: Tutor

Tutor for a total of five semesters. Courses taught primarily in Python and Java, but included C++ and C. Tutors must complete a course and achieve an A grade in order to offer it. Tutored courses included Software Engineering, Computer Architecture and Organization, Data Structures and Algorithms, Operating Systems, Database Fundamentals, C++ for Java Programmers, Object Oriented Application Development, Object Oriented Programming and Data Structures, Discrete Structures and Computing Applications, Computer Logic Design, and Critical Thinking in the Information Age.

EDUCATION

California State University, Long Beach — *B.S. in Computer Science*

2014 - 2018

GPA: 3.759. Member of Phi Kappa Phi Honors Society. Member of the Engineering Honors Program. Member of the University Honors Program. Engineering Liaison for the University Honors Program Students Association. Member of the CSULB University Honors Program Advisory Council. President's Honors List Fall and Spring 2015 - 2018.

Honors Thesis: *Security Vulnerabilities in Mobile Health Applications*. Accepted and published by the 2018 IEEE AINS conference in Malaysia. Utilized Wireshark, Fiddler, and HIPAA guidelines to evaluate the type and severity of security vulnerabilities in mobile health applications.

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SKILLS

Object-Oriented Programming, Java, C#, JavaScript, TypeScript, Angular Framework, Node, Agile Method, Web UI, some Python.

SOME PREVIOUS PROJECTS

Measurand Dashboard

View satellite measurand data in realtime. Built with Angular and NodeRed.

Chess

C# chess application with user interface, A.I. and web app.

Illuminati

Mobile game based on the 80's Illuminati Card Game. Built with Java on Android Studio.

M4G

End to end encrypted chat application. Built using a MERN stack.

BeachShop

CSULB Student-Only Ebay clone using Angular, SQL, Spring, and Firebase.

VOLUNTEER WORK

California Conference for Equality and Justice 2014 - 2017.