Michael Wong

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Experience

HubSpot | *Software Engineering Co-op*   January—June 2018

- Developed backend Java web services and APIs for the Conversations live chat product.
- Worked across teams to bring the product to market under tight deadlines and support it through launch, adding features, improving stability, and integrating with other HubSpot products.
- Created user-facing reporting framework to track usage volume and engagement over time.
- Led a major effort to create logging and auditing tools to assist the support team in triaging and resolving user issues, resulting in reduced support issue volume and improved response time.

BitSight Technologies | *Junior Software Engineer Intern*   January—August 2017

- Developed middleware Django REST APIs for cybersecurity ratings website.
- Implemented algorithm to evaluate a company's security regulatory compliance, and developed a system to alert users when their compliance rating changed.
- Independently implemented a major upgrade to an internal reporting web tool critical to the daily operation of the company, working on all parts of a Flask/SQLAlchemy/Redis/React stack.
- Completely redesigned daily customer emails and report PDFs to reflect updates to the design language, as well as optimizing the backend generation code to improve performance.

QinetiQ North America | *Robotics Software Engineer Co-op*   January—August 2016

- Developed autonomous/remote operated robot designed to neutralize hazmat threats.
- Added functionality to C# controller code and resolved long-standing legacy issues.
- Led efforts to rework WPF UI across multiple areas of touchscreen controller application.
- Refined C/C++ microcontroller code governing movements of robotic arm.
- Organized and managed bug tracking database and performed system-level testing.

Helping Hands Lab | *Research Assistant*   September—December 2015

- Research focused on developing algorithms to allow robotic manipulators to identify, grasp, and move arbitrary objects in an unknown environment.

ALERT Lab | *Research Assistant*   June—December 2015

- Projects utilizing advanced video analytics to aid airport security in identifying threats.

Skills

Languages:	Java, Python, SQL, JavaScript, Racket/Lisp, C#, C/C++, HTML/CSS, Matlab, Verilog
Frameworks:	Django, Django REST Framework, Dropwizard, Elastic Search, Flask, HBase, Junit, Kafka, Maven, Mockito, React, Redis, SQLAlchemy, Swagger, WPF
Applications:	AutoCAD, AWS, Docker, Git, Perforce, Simulink, SolidWorks, IntelliJ, Vim, Visual Studio
Other:	Agile, Arduino, Jenkins, Linux, OS X, Raspberry Pi, Windows

Education

Northeastern University, Boston, MA   September 2014—May 2019 (Expected)
BS in Computer Engineering and Computer Science

GPA:	3.95 / 4.00
Honors:	University Scholars Program, Dean's List, University Honors Program, Eta Kappa Nu
Courses:	Programming Languages, Object-Oriented Design, Algorithms, Artificial Intelligence, Theory of Computation, Digital Logic and Computer Organization, Networks, Embedded Design, Electronics, Circuits and Signals, Linear Algebra and Differential Equations, Calculus III
Activities:	Center for STEM Education, IEEE, Civic Engagement Program