Robert Kim

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Skills

Languages:
- **Proficient** - Python, Java, JavaScript, SQL, CSS, HTML
- **Familiar** - C++, PHP, Bash, 6502 Assembly

Technologies:

- **Proficient** - Flask, Git, Jinja2, JQuery, Bootstrap, MongoDB, SSH, SQLAlchemy, Sass, Nginx, Twilio API, Heroku, Sendgrid API
- **Familiar** - Node.js, Express.js, d3.js, Amazon EC2/S3, Android SDK, Zombie.js, Socket.io, Logisim

Certification: Cisco IT Essentials

Education

Bergen County Academies
Sep. 2012 - Jun. 2016
Academy for Technology and Computer Science
Class of 2016

Relevant Coursework:
- Data Structures
- Linear Algebra and Differential Equations
- AP Calculus AB
- AP Computer Science A
- Computer Security
- Android App Development I, II, III
- Java Programming
- Python Programming
- Processors I, II, III
- Artificial Intelligence
- Linux Shell Programming

New York University
Sep. 2016 - Present
Tandon School of Engineering
Pursuing B.S. in Computer Science, Class of 2020

Relevant Coursework:
- Data Structures and Algorithms
- Calculus II for Engineers

Interests
- Clarinet
- Listening to Music
- Finance
- War Movies/Documentaries
- Building Computers

Projects *See robertkim.io or github.com/rkty13 for more information.*

matrox *Oct. 2016 - Present*
- Linear algebra library currently capable of matrix operations, factorizations, and Gaussian elimination.
- **Uses:** Python

hackBCA II/III Website *Jan. 2015 - Jun. 2016*
- Website and backend staff tools for hackBCA.
- **Uses:** Flask, MongoDB, Twilio API, Sass, jQuery, Sendgrid API.

PiGit *IronHacks (12 Hrs.) - 1st place overall* *Feb. 2015*
- Local git server and interface hosted on Raspberry Pi for hackathons.
- **Uses:** Flask, Git, Raspberry Pi.

FactsMeUp! *Breaking Barriers Hackathon (12 Hrs.)* *Aug. 2014*
- Sends a text message of a randomly submitted fact.
- **Uses:** Flask, MongoDB, Twilio API.

BBChat *Java Programming class* *Jun. 2014*
- Chat application server and client built from scratch using Java.
- **Uses:** Java Networking, Java Swing.

Experience

Director of Technology for hackBCA *Dec. 2013 - Jun. 2016*
- Helped organize one of the largest annual high school hackathons.
- Board member in charge of the tech team for hackBCA.
- Designed and created the hackBCA II & III website with login/registration features as well as internal tools for staff/volunteers.

Software Engineering Intern at Medialets *Jun. 2015 - Aug. 2015*
- Created a dashboard for employees to view company statistics.
- Gained experience with data visualization using the d3.js library.
- Became proficient with SQL databases and using SQLAlchemy.
- Deployed the application on an Amazon EC2 instance using Ansible build scripts.

Programming Intern at Perry Capital *Sep. 2015 - May 2016*
- Worked with MSSQL Functions and Stored Procedures to get data for reports.
- Gained knowledge in the field of finance and investing.

Web Development Intern at Black Lapel *Jul. 2014 - Aug. 2014*
- Created redesigns and maintained legacy code of Black Lapel's website.
- Became proficient with HTML, CSS, JavaScript, and web development practices.

Activities

BCA Computer Security Team *Jan. 2015 - Jun. 2016*
Competed in online cybersecurity competitions.

NY Youth Symphony Chamber Program *Oct. 2012 - May 2016*
1st chair B flat clarinetist in the Traumerei Youth Clarinet Ensemble.

USA Computing Olympiad *Dec. 2014 - Jun. 2016*
Competed in the Silver division.

American Computer Science League *Sep. 2014 - Jun. 2016*
Participated in the international competitions in Denver and Orlando.

National Honor Society *Apr. 2014 - Jun. 2016*
Webmaster in charge of the BCA chapter's NHS website.