Zachary Alexander Knowles

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EDUCATION

Princeton University, Princeton, NJ — Class of 2017
Major: B.S.E. Computer Science
Relevant Coursework: Algorithms and Data Structures, Advanced Programming Techniques, Programming Systems, Introduction to Computer Science, Multivariable Calculus, Linear Algebra with Applications, Fundamentals of Statistics, General Physics

EXPERIENCE

OSS Nokalva, software development company, Somerset, NJ — Summer 2015
Web Developer Intern
- Implementing RESTful service for OSS's ASN.1 encoders/decoders and compilers
- Working with Flask and Flask-RESTful to create REST API

OSS Nokalva, software development company, Somerset, NJ — Summer 2014
Programming Intern
- Worked with UNIX-based systems and gained experience with C programming
- Learned web infrastructure and did back-end work on company website
- Learned about ASN.1 (Abstract Syntax Notation One) and its intricacies

Yik Yak, mobile application, Princeton, NJ — January−May 2015
Spring Term Campus Representative
- Got a chance to work closely with one of the hottest startups of 2014-2015
- Monitored Yik Yak usage and image on campus and reported back to headquarters in an effort to increase Yik Yak's popularity
- Learned about Yik Yak's backend and the challenges that the company faced

NJ Governor's School of Engineering & Technology, Piscataway, NJ — July 2012
Summer Participant at Rutgers University
- Took STEM classes in topics ranging from material science to digital circuits
- Built and programmed LEGO Mindstorms robots then put them through various challenges
- Worked on aluminum air-foil car optimization project (http://oldsoe.rutgers.edu/files/2012AluminumAirfoilCar_v2.pdf)

PROJECTS

Swap, mobile application, Princeton, NJ — March 2015−Present
Developer on four-person team
- Mobile application geared towards easily connecting people across different social networks
- Using www.parse.com for database management
- Developing for iOS using Xcode; using Facebook API, Twitter API, Google Maps API, and more
- Developing for web using Heroku and Flask
- Soon to be released on Apple's app store
- Project description can be found at http://swap.herokuapp.com/

CampRuit, university recruitment website, Princeton, NJ — March 2015−Present
Web Developer on five-person team
- Website designed to create a kind of "common application" for students applying to jobs/internships through university career services
- Website to launch in fall 2015

SKILLS

Proficient in: Java, C, HTML/CSS
Familiar with: Python, Flask, iOS/Swift, JavaScript, PHP
Private tutoring

CLUBS &
ACTIVITIES

Chi Phi Fraternity, Alpha Sigma Chapter   September 2014−Present
Member of Fraternity; Alpha Theta pledge class

Open Source at Princeton (OSAP)   February 2015−Present
Member of Club
- Encourage people of all skill levels to contribute to open source in a sustainable way

Yik Yak Everest Club   February 2015−Present
Member of Club
- Group comprised of Yik Yak campus representatives, former representatives, and friends/family associated with Yik Yak

Princeton University Mentorship Program (PUMP)   September 2014−Present
Mentor
- Mentor two freshman students and make myself available to them to answer any questions about academic/social life on campus

Men's Club Volleyball   September 2013−Present
Player, former VP of finances