

Kevin Crane

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Education

Carnegie Mellon University, Pittsburgh, PA

Masters of Software Engineering

December 2013

- Emphasis on software design and architecture, distributed systems, management, machine learning

University of Southern California, Los Angeles, CA

Bachelor of Science in Computer Science (with honors)

May 2012

- Overall GPA of 3.61; Major GPA of 3.77
- Studied at Queen Mary, University of London in the UK during the Spring '11 semester, furthering my academic and cultural background abroad
- Co-founder and technical lead of Treasure Map, a mobile social media application; designing the software/architecture and managing several other engineers
- Coursework related to: programming and software development, operating systems, cryptography, algorithms, robotics, digital circuits, basic computer architecture, signals and systems, bioinformatics, advanced calculus, discrete mathematics, physics, chemistry

Employment History

Twitter, San Francisco, CA

Software Engineering

January 2014 – present

- Working on the core storage systems and databases for the infrastructure of Twitter

Sneakpeek, San Francisco, CA

Software Engineering Intern

May 2012 – August 2012

- Wrote a new product recommendation engine using Hadoop and Pig on an Amazon Elastic Map-Reduce cluster, configured to run daily
- Built new data logging infrastructure using open-source and cloud-based software (Apache Flume, Amazon EC2 and S3); automated deployment scripts to simplify installation and configuration
- Environment: Java, Python, Hadoop/Pig, Amazon Web Services (EC2, S3, EMR), Flume, Redis

LinkedIn, Mountain View, CA

Software Engineering Intern

May 2011 – August 2011

- Added several back-end features to LinkedIn's site, utilizing multi-faceted searches, persistent data-stores, Spring system configurations, and querying/modifying Hadoop databases
- Regularly published on the LinkedIn Engineering blog and participated in company Hackathons
- Environment: Java, Ruby, Hadoop/Pig, Voldemort, Spring configurations

Proofpoint, Sunnyvale, CA

Software Engineering Intern

June 2010 – August 2010

- Built a file uploading service, from design to deployment, to enable customers to post logs to Proofpoint's internal servers, providing easy access from the company's support staff
- Researched and began implementation of a new content management system for support docs
- Environment: Java, Apache, RESTful APIs, HttpClient, Selenium, Subversion

- Also worked at USC Department of Bioinformatics, Hytrust, and NVIDIA in the past (all internships)

Technical Qualifications

- Programming – Java, Python, C. Experience with Javascript, HTML/CSS, C++, Ruby, Assembly
- Applications/Development Tools – Hadoop/Pig, AWS, Django, Android SDK, Eclipse/IDEA, Git, Subversion, Apache, Bugzilla, Selenium, VMware Workstation, all major operating systems
- Leadership – Eagle Scout that has led a troop of over 100 Scouts; President of the USC Club Water Polo team; assumed important leadership roles during software projects at USC