

Paul Kiernan

<http://paulynomial.com>
pak79@cornell.edu | 646.369.6726

EDUCATION

CORNELL UNIVERSITY

May 2012

BS IN ELECTRICAL AND COMPUTER ENGINEERING

Double Concentration in Electrical Engineering and Computer Science
Honors: John McMullen Dean Scholar, Goldfarb Tradition Fellow

EXPERIENCE

MOAT

May 2012 – Present

SOFTWARE DEVELOPER

- One of three engineers responsible for the development of the full-stack behind Moat Pro, an enterprise ad-intelligence platform that allows clients to research trends in the online advertising industry
- Created a network of web crawlers capable of programmatically detecting, capturing, and indexing online advertisements across different geographical regions
- Designed ETL pipeline for aggregating warehoused index results
- Developed API for aggregate results and Pyramid web application for serving reports to clients
- Created global navigation autocomplete service for web application
- Created Pyramid middleware for logging user engagement with webapp and real-time analytics application for building reports on usage patterns and behaviour
- Encouraged testing and deployed a Jenkins continuous integration server for detecting regressions
- Developed homebrew heterogeneous server role and configuration deployment system in Amazon's EC2.

CORNELL LABORATORY FOR ELEMENTARY-PARTICLE PHYSICS

Jan 2009– May 2012

LEAD LINUX INFRASTRUCTURE CONSULTANT

- Designed, installed, and serviced solutions for a network of high-performance computational nodes used in the study of beams and accelerators, photon science, and particle physics
- Managed a network of Linux nodes responsible for serving the department's administrative tasks

RESEARCH

CORNELL ROBOT LEARNING LAB

Jan 2011 – Mar 2011

UNDERGRADUATE RESEARCHER

- Worked with **Prof. Ashutosh Saxena** to create a supervised learning algorithm for finding good object placements using point-clouds of an object and its surrounding area
- SVM models built from our training examples attained performances in excess of 80% for both precision and recall on both flat and non-flat surface placement by a robotic arm equipped with a Microsoft Kinect.

CORNELL SPACE SYSTEMS DESIGN STUDIO

May 2010 – Dec 2010

POWER SUBTEAM MEMBER

- Designed and fabricated the ATxmega128 based power distribution system for Cornell's operationally responsive, high agility space imaging system codenamed 'Violet'

PROGRAMMING SKILLS

Over 60,000 lines: Python
Over 5000 lines: Java • Shell • Matlab • \LaTeX
Over 1000 lines: MySQL • C • C++ • Assembly
Familiar: JavaScript • CSS • PHP

INTERESTS

Cooking • Boxing • Particle Physics
Fusion Engineering • Miyazaki Films
Aerospace Engineering • Music

LINKS

Github:// [paulkiernan](#)
LinkedIn:// [paulkiernan](#)
Twitter:// [@gaelic](#)