Paul Kiernan

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EDUCATION

CORNELL UNIVERSITY
BS in Electrical and Computer Engineering
May 2012 | Ithaca, NY
College of Engineering
Conc. in Electrical Engineering
Conc. in Computer Science
John McMullen Dean Scholar
Goldfarb Cornell Tradition Fellow

LINKS

Github:// **paulkiernan**
LinkedIn:// **paulkiernan**
Twitter:// **@gaelic**

COURSEWORK

Robot Learning
Operating Systems
Open Source Software Engineering
Unix Tools and Scripting
C ++ Programming
Computer Architecture
Digital Systems Design Using Microcontrollers
Microelectronics
Embedded Systems
Computerized Instrumentation Design
Digital Logic Design
Discrete Structures
Signals & Systems
Probability and Inference
Lasers and Optoelectronics
Controlled Fusion

SKILLS

PROGRAMMING
Over 5000 lines:
Java • Shell • JavaScript • Matlab
OCaml • Python • Rails • LaTeX
Over 1000 lines:
C • C++ • CSS • PHP • Assembly
Familiar:
AS3 • iOS • Android • MySQL

INTERESTS

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

EXPERIENCE

MOAT | Software Developer
May 2012 – Present | New York City, NY

- Develop the full-stack web application for Moat's enterprise-level brand advertisement search engine.
- Build a real-time usage-reporting tool for the brand intelligence application.
- Design a heterogeneous network of web crawlers capable of detecting, capturing, and indexing online advertisements. Incrementally extend indexer web reach and capabilities (i.e.- most recently: the inclusion of rich-media advertisements alongside more traditional formats such as the Standard IAB).

CORNELL UNIVERSITY | Linux Infrastructure Consultant
Jan 2009– May 2012 | Ithaca, NY

- Lead undergrad consultant at the Laboratory for Elementary-Particle Physics.
- 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 complex network of heterogeneous Linux nodes responsible for serving the department's administrative tasks.

RESEARCH

CORNELL ROBOT LEARNING LAB | Undergraduate Researcher
Jan 2011 – Mar 2011 | Ithaca, NY
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. Implemented the algorithm on an Adept Viper s850 robotic arm equipped with a Microsoft Kinect. 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. **Publication** .

CORNELL SPACE SYSTEMS DESIGN STUDIO | Power Subteam
May 2010 – Dec 2010 | Ithaca, NY
Designed and fabricated the ATxmega128 based power distribution system for Cornell's operationally responsive, high agility space imaging system codenamed 'Violet'.

AWARDS

2014	top 52/2500	KPCB Engineering Fellow
2014	2nd most points	Google Code Jam, Qualification Round
2014	1st/50	Microsoft Coding Competition, Cornell
2013	National	Jump Trading Challenge Finalist
2013	7th/120	CS 3410 Cache Race Bot Tournament
2012	2nd/150	CS 3110 Biannual Intra-Class Bot Tournament
2011	National	Indian National Mathematics Olympiad (INMO) Finalist

SOCIETIES

2014	top 12%ile	Tau Beta Pi Engineering Honor Society
2014	National	The Global Leadership and Education Forum (tGELF)
2012	National	Golden Key International Honor Society