KELLI ROCKWELL

Engineer | Scientist | Programmer | Artist

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EDUCATION

POMONA COLLEGE | Claremont, California

B.A.s in Computer Science and Physics | GPA 3.33/4.00   Graduating May 2017

Computer Science Course Material:

- Object-oriented and functional programming
- Recursive techniques
- Data structure design and use
- Algorithm design, implementation, and analysis
- Mathematical modelling, computability, and logic
- Language construction and processing
- Quantum computation
- Combinatorics and graph theory

Physics Course Material:

- Classical mechanics
- Electricity and magnetism
- Transistors and integrated circuits
- Thermodynamics and statistical mechanics
- Contemporary experimental physics
- Observational techniques in astronomy
- Linear algebra and vector calculus
- Data analysis and presentation

UNIVERSITY OF EDINBURGH | Edinburgh, Scotland, UK

Semester abroad August 2015 – December 2015

WORK EXPERIENCE

WEB DEVELOPMENT INTERN | eBay   May 2016 – August 2016

- Designed and developed intranet platform for communications of eBay's Global Foundation Services, managing server instances, implementing Wordpress CMS, orchestrating SSO integration, and maintaining scrum sprints
- Created scalable, live dashboard of operational statistics of eBay's infrastructure

RESEARCH ASSISTANT | KAPAO: A Pomona Adaptive Optics   April 2014 – August 2015

Ongoing NSF-funded instrumentation effort started in 2010 to develop and deploy a low-cost, remote-access, natural guide star adaptive optics system capable of correcting wavefront deformations to sharpen images of the cosmos

- Upgraded hardware and software, performed detailed optical realignments, and refined data analysis techniques
- Piloted multiple-night observational runs with colleague, gathering data on more than a dozen astronomical targets
- Presented findings with colleague through series of three posters and two informational talks at Pomona research fair and Conference for Undergraduate Women in Physics 2015

FREELANCE GRAPHIC DESIGNER | Thiink, *www.thiinkposters.com*   June 2007 – Present

- Developed brand and website for service focusing on custom poster design for college students
- Designed website layouts, company/group logos, presentational materials, event brochures, infographics, article illustrations, and photomanipulations/photo retouchings for diverse purposes and platforms

TECH SKILLS

LANGUAGES | HTML, CSS (Sass), Javascript (Jquery, Node.js), PHP, MySQL, Mathematica, Matlab, Java, Python, C

OPERATING SYSTEMS | Windows (XP, Vista, 7, 8, 10), Mac OS X, Linux (Ubuntu, terminal)

PROGRAMS | Adobe Creative Suite (Photoshop, Illustrator), Eclipse, MS Office (Word, Excel, Powerpoint, Outlook)

VOLUNTEERING AND LEADERSHIP

PHYSICS COHORT GUIDES COFOUNDER | Pomona Physics Department   May 2016 – Present

- Devised new breed of intellectual, emotional mentoring program to improve minority student retention in physics
- Oversaw institution of program, organized program events, and regularly engaged in re-assessing program goals

COMPUTER SCIENCE CLUB COORDINATOR | Pomona Computer Science Club   January 2013 – Present

- Established club as platform for education and collaboration of students of any computer science background
- Organized student-run workshops, facilitated long-term project development, and publicized club

PHYSICS DEPARTMENT LIAISON | Pomona Physics Department   August 2015 – Present

- Coordinated events encouraging interaction among faculty and students as well as outreach to prospective students