Jacob Burroughs

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Education

The University of Chicago, Chicago, IL

Bachelor of Science in Computer Science   Expected June 2018

Relevant courses: Honors Computer Science, Computer Systems, Computer Architecture, Computer Security, Programming Languages, Discrete Mathematics, Analysis in $\mathbb{R}^n$, Basic Algebra

Experience

Software Engineering Intern   June 2016-Present

Trustwave, Chicago, IL

- Develop components of threat analysis application for customers and security operations team
- Apply Agile methodologies to Java/Spring + Dart/Polymer application
- Integrate Java code with external data processing program
- Collaborate as member of three-person team
- Coordinate with other teams to integrate products

Software Developer   June 2015-Present

McKlein Company LLC, Chicago, IL

- Develop new CakePHP-based internal services portal integrating data from multiple databases
- Implemented features to make website mobile-friendly
- Created public-facing review system and contact forms, streamlining customer support experience

Open Source Developer   Jan. 2013-Present

BRL-CAD, brlcad.org

- Manage website infrastructure and write code for open source CAD software
- Mentored students participating in Google Code-in program

Web Developer   June-Sept. 2013, 2014

Local Startup (name withheld for legal reasons), Highland Park, IL

- Developed website from scratch using CakePHP
- Set up and maintained Linux web/database/email server

Skills

Languages C#, Dart, HTML, Java, JavaScript, LaTeX, PHP, Polymer, ROBOTC, SQL

Frameworks CakePHP, Hibernate, Polymer, Spring

Software Git, Microsoft Office, Vagrant

Other Agile/SCRUM, Linux, Server management

Leadership

Leadership Team Member and Field Technical Advisor   Nov. 2014-Present

FIRST Tech Challenge, Chicago, IL

- Plan robotics tournaments and technology training as part of Illinois FIRST Tech Challenge Leadership Team
- Direct technical aspects of FIRST Tech Challenge robotics tournaments

Co-captain and Lead Programmer   Sept. 2010-May 2014

FIRST Tech Challenge Robotics Club, Highland Park High School

- Led team that, four years in a row, both won a state tournament and qualified for the world championship
- Programmed team's robot using ROBOTC to operate both autonomously and under driver control

Honors and Awards

ACM/ICPC Mid-Central Regional Qualifier   May 2015, May 2016

- Advanced two times from University of Chicago contest in team-based programming competition

Google Code-in Grand Prize Winner   Feb. 2014

- One of the winners of an international open source programming competition