David Cowden

CONTACT Information Grinnell College

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EDUCATION

Grinnell College, Grinnell, Iowa, USA

Bachelor of Arts in Computer Science — CS GPA 3.6/4.0

August 2009 - May 2013

Interests

Mobile Device Development — Low-Level Software Systems — Computer Engineering — REST

Portfolio

GitHub https://github.com/dcow Bitbucket https://bitbucket.org/dcow

Publications

Cowden, D, et al., (2012). "A C-based Introductory Course Using Robots", in *Proceedings of the 43rd ACM Technical Symposium on Computer Science Education*, February 29th - March 3, 2012, Raleigh NC, 27-31.

Professional Experience

Grinnell College Information Technology Services, Grinnell, Iowa

Mobile Application Development Coordinator

January 2011 – present

- Manage a group of 8 developers responsible for creating mobile applications on all modern platforms.
- Released G-licious a full featured Grinnell dining assistant with over 400 active installs.
- Product manager for TCDB2 a rewrite of the ACM award-wining shift scheduling system, TCDB.
- AppDev portfolio: https://github.com/GrinnellAppDev G-licious: http://apps.g-licio.us

Technology Consultant

September 2009 – present

- Provide Linux, Windows, OSX, Application, and Networking support for students and staff.
- Train new students and new tech consultants at the helpdesk.

Oklahoma University Health Sciences Center, Oklahoma City, Oklahoma

Undergraduate Summer Research Student

June 2012 - August 2012

- Worked with 4 medical students at OUHSC to develope a system for auto-curation of data.
- Wrote *jPearltrees*, a Java interface for RDF/XML *Pearltrees* data: http://jpearls.dcow.me

Grinnell College Computer Science Department

Undergraduate Summer Research Student

June 2011 - August 2011

- Worked with 3 other students to develope Myro-C, a C interface for the Parallax Scribbler 2 robots.
- Wrote a complete course curriculum utilizing the robots.
- Published a paper: A C-based Introductory Course Using Robots among the proceedings of SIGCSE.

Iowa Health System, Cedar Rapids, Iowa

IT Department Intern

June 2010 – August 2010

- Conducted imaging software testing exposing the need to reduce first image response time.
- Interned with server and network administrators as well as the systems architect.

PROGRAMMING TECHNOLOGIES $Proficient: \quad {\rm C} \cdot {\rm C}++ \cdot {\rm Java} \cdot {\rm Scheme} \cdot {\rm Python} \cdot {\rm Ruby} \cdot {\rm Rails} \cdot {\rm Bootstrap}$

 $Familiar: \qquad \text{Open-GL} \cdot \text{RISC Assembly} \cdot \text{PROLOG} \cdot \text{Ruby} \cdot \text{PHP} \cdot \text{Perl} \cdot \text{JavaScript} \cdot \text{Mathematica}$

Markup

 \LaTeX · HTML5/CSS3 · SASS · JSON · XML · RDF · DOM · OWL · Markdown

SKILLS & ENVIRONMENTS

 $\label{eq:linux-unix} \begin{array}{l} Linux/Unix \cdot Android \cdot OSX \cdot iOS \cdot Windows \ [RT] \cdot GIT \cdot Sublime \ Text \ 2 \cdot VIM \cdot Rspec \\ Command-line \ Tools \cdot Server \ Admin \cdot Agile \ Methods \cdot XP \cdot TDD \cdot Trello \cdot Active \ Record \\ \end{array}$

Professional Leadership CS Student Education and Policy Committee \cdot CS Department Tutor and Grader \cdot Tech Consultant Mentor \cdot XP Product Manager \cdot StackExchange Contributor \cdot ACM Student Chapter Vice President

Extra Cirricular Grinnell Singers – Bass Section Leader \cdot Noteworthy A'cappella Group – Director \cdot Graphic Design Grinnell Grillers – Founder \cdot International Soccer Organization \cdot Recognized XDA Developer