

Kimberly Keller

kimberlykeller.github.io
github.com/kimberlykeller

EDUCATION

2015 – Fullstack Web Development Bootcamp, CNM STEMulus Center.

2012 – B.A. Philosophy & English, University of New Mexico, magna cum laude.

COURSES

Fall 2018 (*in progress*) – University of New Mexico, CS 556, Advanced Declarative Programming

Fall 2018 (*in progress*) – University of New Mexico, CS 555, Advanced Topics in Compiler Construction

Spring 2018 – University of New Mexico, CS 357, Declarative Programming

Fall 2017 – University of New Mexico, CS 251, Intermediate Programming

Fall 2017 – University of New Mexico, CS 261, Math Foundations of CS

PROFESSIONAL EXPERIENCE

2018 – present. Xpansiv Data Systems, Software Engineer

- Develops high-quality software and architecture using Java, MySQL, JavaScript, AWS, Git.
- Designed and implemented core-application REST API.
- Wrote audit system in Java to maintain data integrity across the application.
- Implemented application-wide security and permissions using Java Spring Security framework.
- Member of research and development team. Participates in blockchain testing sessions for RChain and tasked with understanding RChain DSL, RhoLang.
- Participates in peer review and code quality meetings.
- Implements necessary testing with JUnit, Cloud Contract.

2017 – 2018. BlueInk Technologies, Inc., Software Developer

- Implemented features using Python, JavaScript, and PostgreSQL.
- Contributed to testing suite and followed test driven development best practices.
- Integrated in-application customer support process.
- Participated in software design and architecture meetings.
- Coordinated with support teams to incorporate customer feedback to development process.

2016 – 2017. Zbyte Web, Web Developer

- Built custom WordPress themes and plugins using jQuery, HTML, PHP, CSS/SASS.
- Prepared website proposals and proposed technical solutions to meet business needs.
- Coordinated with clients to implement mobile-first, cross-browser features and designs.

2014 – 2015. Gravitas Publications, Marketing & Operations Director

2013 – 2014. Gravitas Publications, Marketing Director

2102 – 2013. Kappa Kappa Gamma Fraternity, Leadership Consultant

2011 – 2012. Center for Academic Program Support, Math/Science Student Manager

2010 – 2011. Center for Academic Program Support, Supplemental Instruction Leader, Calculus

2010 – 2011. Center for Academic Program Support, Supplemental Instruction Leader, Geology

AWARDS

2018 – 2nd place, Deep Dive Code-A-Thon, Hackathon

- Donation application for repurposing gently used technology. Serverless architecture developed using Firestore (NoSQL), React (JavaScript), Redux.

2015 – 1st place, University of New Mexico Mobile App Contest

- Peer to peer application connecting grocery stores and restaurants with those in need. Full stack web application and hybrid mobile app for Android and iOS. Developed using MySQL, PHP, AngularJS, HTML5, Bootstrap, and Ionic Framework.

RESEARCH INTERESTS

Software engineering and software design, principles, and best practices for large-scale, distributed applications.

Programming language design, development, and implementation, especially functional programming languages. Particular interest in multicore support, garbage collectors, and compilers. Languages of interest include, Haskell, Erlang, OCaml as well as experimental and domain specific languages.

VOLUNTEER EXPERIENCE

2016 - 2017 – Programming Tutor CNM STEMulus Center

2016 – Coding Instructor UNM Summer Camp.

- 3rd - 5th grade students, programming principles and games taught using MIT Labs Scratch programming language.

2016 – Programming Instructor, Bosque Summer Camp.

- 1st – 8th grade students. Programming principles and games developed using JavaScript, Python, MIT Scratch depending on level.

2015 - 2016 – Programming Instructor, Bosque Winterim.

- 6th - 8th grade students. Two-week project-based programming course developing games using JavaScript, Python, or MIT Scratch depending on level.

