Shane S. Sims

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Professional Experience

Advanced Industrial Modeling, Inc.   *May 2014 - April 2015; April 2016 - Present*
Software Engineer (C#, .NET 4.6)

Full stack developer on Excel-integrated linear programming application used to optimize oil refineries.

- Application developed with one other engineer; product expected to generate $500,000 revenue in 2017.
- Built powerful custom query interface to use Microsoft Excel as pseudo-database (C#).
- User Experience design and implementation (WPF, JavaScript).
- Adjust development priorities around changing client demands; small business with many custom solutions.

Agilysys, Inc.   *July 2015 - Jan. 2016*
Quality Assurance Engineer

Created testing schemes and manually tested hardware and software for release.

- Simulated customer experience with goal to maximize products' usability and effectiveness.
- Prioritized tasks using SCRUM; employ agile development methodologies.
- Configure and support clients' software and hardware on-site with customers; catalog feedback.

UC Santa Cruz – Jack Baskin School of Engineering   *2011 - 2013*
Tutor / Reader

Section leader of computer science classes. Lectured in computer labs and assisted students individually; graded students' programming assignments and exams.

- Prioritized time with large groups of students; no down time - sections overbooked, understaffed.
- Organized crowds which would gather during sections before exams and assignment deadlines.

Projects - github.com/sssims

Hemingwire   *September 2014 - February 2015 (Abandoned)*
hemingwire-alpha.com
Ruby on Rails web application - a social media venue for book readers to discuss novels .

- Full stack development using Unix, Ruby, SQL, JavaScript, CSS, and HTML.
- Focused on user experience and rapid development cycles.
- Leveraged as a platform to learn the Ruby on Rails framework, server configuration, and web deployment (no previous experience).

Education and Skills

University of California, Santa Cruz

B.S. Computer Science, December 2013
Minor Physics

Programming Languages (Ordered most to least experience)
C, C#, JavaScript, Ruby, SQL, Java, C++, Python, HTML, CSS, VB.NET, VBA, LC3 Assembly

Technical Skills

- Database Systems
- Algorithm Analysis
- Software Design Patterns
- Operating Systems
- Test Driven Development
- Object Oriented Programming
- Server Configuration

- Android Applications
- Computer Architecture
- Statistics
- Data Analysis
- Laboratory Physics
- Quantum Mechanics
- Calculus