

# Shane S. Sims

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## Professional Experience

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### 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/ssims](https://github.com/ssims)

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### Hemingwire

September 2014 - February 2015 (Abandoned)

[hemingwire-alpha.com](https://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

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### 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