

## Contact

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## Top Skills

Microservices  
Infrastructure Security  
Django

# Matthew Borger

Senior Software Engineer with expertise in Software Infrastructure  
and Genomic Analysis  
San Diego, California, United States

## Summary

Experienced Software Engineer with a demonstrated history of working in the biotechnology industry. Skilled in Python, Java, C++ and Hibernate. Strong engineering professional graduated from University of California, San Diego.

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## Experience

### Agena Bioscience

#### Senior Software Engineer

July 2015 - March 2024 (8 years 9 months)

San Diego, CA

Developed genomic analysis software and instrumentation controls conforming to FDA In-vitro diagnostic, CE-IVD (European Union) and NMPA (China's FDA) guidelines.

- Designed and built new software stack to meet regulatory guidelines allowing the company to acquire new customers, enabled the sale of our product in China, creating several partnership deals worth \$100m
- Worked closely with scientists to analyze their procedures and optimize their experimental scripting code in Perl to a unified platform suitable for outside customer interaction
- Experience mentoring and managing direct reports to prioritize tickets and maintain company roadmap. Coached junior engineers with code reviews and regular training which increased development velocity
- Coordinated work with remote team in Romania and local contractors to keep project deliverables and utilize specialist resources not available within the company
- Used Java, Spring Boot, Hibernate, React, Azure, C++
- Promoted from Engineer II to III in 2017
- Promoted from Engineer III to Senior in 2019
- Received Value Recognition Award in 2020 for delivering and supporting our first Chinese customer through their regulatory approval of our software and instrumentation

- Received Value Recognition Award in 2021 for ensuring a smooth migration of our online applications to a new customer support portal
- Received Value Recognition Award in 2022 for modernizing an out of support computation cluster and migrating it to the cloud

## Amazon

### Software Development Engineer

September 2013 - July 2015 (1 year 11 months)

Irvine, CA

Work on developer services to support the Amazon Appstore.

#### Past projects:

Mobile Analytics - Built a REST api for managing your AWS Mobile Analytics account. Team size of 16 including one test engineer.

- Used Java, Spring, Hibernate, REST, RPC, SOA

Live App Testing - Built a system to publish Android applications through Amazon's production system while restricting access to only the people the developer had invited to test. Team size of 6 including one QA engineer. Worked with remote teams in Seattle and India.

- Used Java, Spring, Hibernate, RPC, SOA, JSP, MVC

Developer Portal - Maintained the application ingestion workflow at [developer.amazon.com/appsandservices](https://developer.amazon.com/appsandservices). Team size of 20 including 2 QA engineers. Worked with remote teams in Seattle and India.

- Used Java, Spring, Hibernate, RPC, SOA, JSP, MVC

## L-3 Communications

### Software Engineer Intern

June 2011 - September 2012 (1 year 4 months)

San Diego, CA

Designed and developed frontend applications for interacting with Matlab/Simulink simulations of various injuries. The product team was 12 Medical/Engineering PhDs with 2 software developers.

#### Projects included:

Built a Windows desktop application for blunt force trauma simulation that modified vector graphics in real time.

- Used C#, XAML

Built an Excel addin to allow easier manipulation of an internal dataset file format.

- Used C#, Visual Basic, COM interops

Developed an Android tablet application frontend for simulating toxic gas exposures.

- Used Java, Android SDK

Fixed issues with transitioning legacy code from an unmaintained internal file format to HDF.

- Used Fortran, C++

UC San Diego

CSE Tutor

September 2010 - March 2011 (7 months)

San Diego, CA

Assisted in teaching lab sections, led group discussions during lecture and hosted open lab hours for students to come for assistance.

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## Education

University of California, San Diego

Computer Engineering · (2009 - 2013)