

Brandon Skari

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Professional Experience

- Nov 2015–**Software Engineer**, *Google*, Boulder, CO
Dec 2016 Worked on internal billing applications
Ported secure credit card storage to new system
Wrote arbitrary secure data lookup application
Worked with PCI compliance storage requirements
Implemented access restrictions, logging, auditing, and alerting of PII data access
Ported applications from deprecated Python framework to Java
- April 2014–**Software Engineer**, *Pandora Media*, Boulder, CO
June 2015 Updated unit test framework improving speed 5X
Prepared and optimized Hadoop queries
Improved and maintained job dependency framework
Added functionality to record and analyze song skip times
- Aug 2013–**Lead Developer**, *Augur, Inc.*, Boulder, CO
Sept 2013 Developed back-end of personalization engine with Node.js
Identified and fixed a number of security vulnerabilities
- July 2011–**Software Engineer**, *Yelp*, San Francisco, CA
Aug 2013 Developed web-based internal moderation tools using Python
Identified MySQL performance issues and optimized queries
Regularly tested and deployed new code for organization
Improved Elite user nomination workflow for Community Managers
- 2008, 2009 **Graduate Intern**, *Idaho National Laboratory*, Idaho Falls, ID.
Updated safety simulation of terrestrial radioisotope-powered broadcast towers
Extended the simulation to analyze the risk of transporting other hazardous materials

Education

- 2007–2011 **MS, Computer Science**, *University of Wyoming*, Laramie, WY.
Advisor: John M. Hitchcock, Ph.D.
Thesis: Bayesian Classification of SQL Injection Attacks
Wrote a 14,000 line proxy for MySQL that intercepts queries and prevents injection attacks
GPA: 3.79
- 2002–2007 **BS, Computer Science**, *SDSM&T*, Rapid City, SD.
- 2002–2007 **BS, Applied and Computational Mathematics**, *SDSM&T*, Rapid City, SD.
Computer Science GPA: 3.7
Overall GPA: 3.5

Qualifications

- Python Wrote internal web-based moderation tools for Yelp with Python 2
Created ParkStamper, a site to track national park stamps, using Pyramid framework and Python 3
Wrote Python C extension for Raspberry Pi radio library
- JavaScript Wrote responsive web apps with Angular at Google
Developed back-end engine with Node.js at Augur, Inc.
Contributed several bug fixes to Sequelize, a Node SQL ORM
- PostgreSQL Ported database from MySQL to Postgre for *ParkStamper*
Recorded song skip times using Postgres at Pandora
- MySQL Analyzed and optimized queries at Yelp, improving some page loads by 300%
Wrote and contributed the MySQL packet dissector for Wireshark packet sniffer in C
Wrote a MySQL proxy firewall that parses MySQL's SQL dialect
- Java Wrote internal billing applications for Google
Improved and maintained job dependency framework for Pandora
- C++ Wrote a MySQL proxy firewall that identifies and prevents injection attacks
Wrote a type-safe and injection-safe MySQL library using C++11 variadic templates

Professional and Scientific Organizations

- Solid State Depot, the Boulder Hackerspace
- President, 2015–2017 Planned and attended multiple Maker Faires
Assisted with pursuing 501c(3) status
- Collegiate Cyber Defense Competition
- Member 2011 Nationals: 5th place – Secured systems and responded to attacks
2011 Regional: 1st place – Secured two LAMP installations
2010 Regional: Entrant, secured LAMP installation
- ACM
- ICPC 2006 Regional: Entrant for South Dakota School of Mines and Technology, 10th of 181 teams
2005 World Finals: Entrant for South Dakota School of Mines and Technology

References

Available upon request.