

JAREK SEDLACEK

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WORK EXPERIENCE

12/2015-Present

Google *Senior Software Engineer*

- Lead team focusing on increasing the efficiency and reliability of Google Mobile Services on billions of Android devices, and the surrounding launch infrastructure.

8/2013-12/2015

Google *Site Reliability Engineer*

- Ensured reliability and scalability of a massively distributed monitoring and alerting system
 - Developed scaling automation, saving more than 500 engineer hours per month
 - Made code and architectural changes to reduce CPU and memory usage by 20%, as well as improving latency, throughput, and redundancy
 - Increased transparency and monitoring, resulting in the offering of a stronger SLA
 - Reacted to emergencies as part of an on-call rotation

5/2012-8/2012

Google *Software Engineering Intern*

- Designed and developed a peer to peer system for updates on a massively replicated database, including
 - A publish-subscribe messaging system for the dissemination of metadata
 - A file copy system using BitTorrent protocol moving terabytes of data per day
 - Modifications of the database core to use the new system for updates

6/2011-8/2011

DOTGO *Developer*

- Increased message throughput of main engine by 1400%
- Expanded logging daemon to remotely and securely view status and log information for running processes
- Designed and developed quality assurance software including:
 - Benchmark for message throughput
 - CMRL markup validator for mobile sites
 - Regression test engine and associated tests for the DOTGO CMRL parser

5/2010-8/2010

Armament Research Development and Engineering Center — United States Army *Engineering Technician*

- Designed and implemented a multi-threaded graphical application in C++ for the Small Arms Deployable Sensor Network (SmADSNet), including:
 - GUI in QT for visualizing data from sensor nodes overlaid on satellite imagery
 - Network stack enabling TCP, UDP, and serial communications with a mesh network of sensor nodes
 - MySQL back-end with export ability for post-analysis and the ability to sync from multiple sources

9/2009-5/2013

Open Systems Solutions — Rutgers University *Student Systems Programmer*

- Built and maintained RPM packages used throughout a user community of 70,000 staff and students
- Integrated Nagios, Cacti, and Python to monitor service status, analyze trends, and report issues
- Wrote, deployed, and maintained spam detection code handling millions of emails per day
- Created scripts to update, maintain, and ensure integrity of local mirrors for the following Linux distributions: Arch Linux, Ubuntu, Fedora, and CentOS

EDUCATION

9/2009-5/2013

Rutgers University — School of Arts and Sciences Honors Program

- Major: Computer Science and Physics · Total Credits: 133
- Computer Science GPA: 4.0 · Total GPA: 3.849
- Dean's List Fall 2009-Spring 2013 · Presidential Scholarship Winner
- Graduated Magna Cum Laude in May 2013, with additional honors in Computer Science

SKILLS

Programming (strongest languages: Python, C++, Go)
Incident Response · Monitoring · Release Management · Distributed Systems