

Kellen Donohue

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FORWARD DEPLOYED SOFTWARE ENGINEER SUMMARY

- 10+ years at Palantir and Google leading teams on real-time analytics and decision-making systems
- Technical leader and patent-awarded engineer with expertise in Spark, Kafka, Flink and Gen AI experience
- Built large-scale pipeline, including 1 TB/day across 60+ sources for entity resolution

INDUSTRY EXPERIENCE

Palantir Technologies

Forward Deployed Software Engineer: July 2015 – April 2025

- **Tech lead** of several ~6-engineer teams creating big data processing, analysis, and operational decision-making solutions for clients across 9 industries, including leveraging **Generative AI**
- Developed real-time optimization system tracking **4,000+ daily flights across 200+ airports**, integrating with live air traffic & scheduling data using **Kinesis, Kafka, Flink, Spark**
- Created entity resolution pipeline ingesting **1 TB/day across 60+ data sources** reconciling **millions** of customer and transaction records for compliance teams across multiple countries
- **Led design and implementation** of a regulation-compliant member engagement platform for a major US healthcare payer, streamlining outreach to millions of members, awarded [patent](#)
- Built real-time fault tracking system ingesting high-frequency telemetry **from 100+ industrial machines** deployed at 20+ customers, reducing downtime by enabling anomaly detection in seconds
- Engineered **OAuth 2.0 client libraries** for secure Foundry API authentication at **enterprise scale** and service for data-powered emails, both deployed at dozens of customers

Google – Helpouts, Hangouts

Software Engineer: July 2013 – July 2015

- Delivered scalable front-end features in **Java, JS**, including secure messaging and consent workflows
- Implemented **unified notification system** across iOS, Android, SMS, web, and email, reducing duplication and improving developer velocity while ensuring a consistent user experience

Facebook – Platform

Software Development Intern: June 2012 – September 2012

- Developed send-to-mobile, a system for delivering mobile app install notifications to Facebook users in **XHP, and JS**, serving **millions of impressions** and thousands of conversions daily

EDUCATION

University of Washington, Seattle, WA

M.S. Computer Science and Engineering, June 2013

B.S. Computer Engineering, June 2012, Cum Laude, B.A. Political Science, June 2012, Cum Laude

ACADEMIC RESEARCH

.NET Binary Instrumentation for Invariant Detection – under Professor Michael Ernst

Research Assistant: October 2010 – June 2013

- Published "[Case Studies and Tools for Contract Specifications](#)" *ICSE 2014*, Created program to modify **C#** allowing reflective variable inspection for automated invariant detection and contract generation

TECHNICAL SKILLS

- Languages: Java, Python, C#, JS, TypeScript, SQL, Ruby
- Big Data & Streaming: Apache Spark, Apache Flink, Apache Kafka, Hadoop, Elasticsearch
- Cloud & Infrastructure: AWS (EC2, S3, Redshift, Kinesis), OAuth 2.0, PostgreSQL

ADDITIONAL INFORMATION

- Additional summer internships: **Google** 2011, **Facebook** 2012, 2010, **Microsoft** 2009, 2008
- Graduate areas of focus: Prog. Languages, AI, Dist. Systems, Compilers, Security, Software Eng.

