Kellen Donohue

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FORWARD DEPLOYED SOFTWARE ENGINEER SUMMARY

- 10+ years at Palantir and Google leading teams creating real-time analytics and decision-making systems
- Technical leader and patent-awarded engineer with expertise in Spark, Kafka, Flink and Gen AI experience
- Expert in building large-scale data processing pipelines, including 1TB/day, 60+ sources entity resolution workflow

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

- Graduate areas of study: Prog. Languages, AI, Dist. Systems, Compilers, Security, Software Eng

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