


# Daniel W. Phang

Seattle, WA

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## Experience

### Airbnb

**Seattle, WA**

*Senior Software Engineer*

*July 2021 – Present*

- Tech lead for the Safety team, working on backend modernization, system quality, and operational excellence.
- Led over 15 engineers on multiple Trust & Safety review queue migrations (background checks, negative news, enhanced safety) from Ruby to Java, resulting in 500k+ cases migrated and \$2m+ in operations savings per year.
- Founded the Trust Testability Group, consisting of 9 cross-org engineers, to improve integration testing best practices. 56/71 Trust services now fully automated deep integration tests (+11 services from 2024). Improved the Airbnb-wide testing platform by decentralizing test ownership for platform services and expanded integration test metrics to include dependency coverage.
- Designed an auditing and backfill system that improved screening reliability to 99.99% and reduced the incident mitigation time from 1 hour to 10 minutes. Won the Airbnb Tech Excellence Award in 2023.

### Microsoft

**Redmond, WA**

*Software Engineer II*

*April 2019 – July 2021*

- Led a team of two other engineers to integrate Azure CDN into SharePoint - major components included certificate management, tooling, frontend, and backend work. This resulted in improved asset load performance from 500 ms to 100 ms at P75, COGS reduction of 80%, and data compliance.
- Implemented a data pipeline and monitoring system to automatically detect performance issues and suggest corrective actions for 400+ top businesses.
- Reduced the median HTML CDN link rewrite time from 100 ms to 2 ms for 50+ top businesses.

### Amazon

**Seattle, WA**

*Software Development Engineer II*

*June 2014 – January 2019*

- Led a team of three other engineers to design and implement accounting workflows to launch Prime Wardrobe. Wrote a new plugin-based accounting microservice to allow easy future integration with other retail programs.
- Reduced the US Prime Wardrobe nonpayment rate from 6% to 3% by implementing additional validations based on customer behavior patterns.
- Optimized Prime Wardrobe's Redshift cluster by intelligently distributing workloads, reducing peak CPU usage from 95% to 50% and peak disk usage from 90% to 60%.

### Dealcrane

**Seattle, WA**

*Co-founder*

*November 2024 – Present*

- Launched a website with two others to find discounted products from top retailers such as Amazon, Newegg, and Best Buy. Users can browse for deals for a variety of categories such as home, beauty, tech, snacks, and more, and create price alerts.
  - Used modern technologies such as SvelteKit, FastAPI, Temporal, and GenAI to build a scalable, performant, and reliable platform hosted on Render, Cloudflare, and PostHog.
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## Skills

**Languages:** Java, Scala, Python, TypeScript, Ruby, PrestoSQL, PostgreSQL

**Software:** AWS, Azure, Digital Ocean, Docker, FastAPI, GitHub Actions, Kubernetes, React, Svelte, Terraform

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## Education

### Lehigh University

**Bethlehem, PA**

*M.S. Computer Science (GPA: 3.96/4.00)*

*August 2013 – May 2014*

*B.S. Computer Engineering (Minor in Economics) (GPA: 3.77/4.00)*

*August 2009 – May 2013*