

# Andrew Frazier

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Backend SWE with experience shipping customer-facing features, building observability systems, and improving large-scale reliability on cloud infrastructure

## EDUCATION

### University of Washington

Seattle, WA

Bachelor of Science, Informatics (Data Science Concentration)

September 2017 – March 2022

**Languages:** Python, Java, C#, JavaScript, SQL

**Frameworks/Tools:** React, Flask, .NET, Docker, Kubernetes

**Platforms/Concepts:** Azure, Linux, TypeScript, Distributed Systems, PostgreSQL

## WORK EXPERIENCE

### Career Break

NA

NA

January 2025 - Present

- Left Microsoft voluntarily. Backpacked through South America, then relocated to San Francisco
- Contracted with TrainLoop (YC W25) on backend APIs and internal reliability tooling

### Microsoft

Redmond, WA

Software Engineer, PostgreSQL on Azure

May 2022 – January 2025

- Built alerting system to detect regressions fleetwide, reducing downtime investigation by 24%
- Built and owned backend infra for SLA and outage dashboards used across leadership and support teams
- Developed existing index merge algorithm for index recommendations, improved query performance by 8%
- Shipped portal features (Query Insights, Troubleshooting Guides), live on all Azure PostgreSQL servers
- Automated 80% of support tickets with diagnostic enrichment and tailored remediation steps

### Microsoft

Redmond, WA

Software Engineer Intern, Microsoft Azure

September 2019 – September 2021

- Completed three internships within Azure Data with ownership of workload simulation and optimization
- Simulated workloads to match customer telemetry with a deviation under 9% for tuning of our service
- Reduced creation time from 3 minutes to under 10 seconds for 63% of Azure Attached Applications

### Paul G. Allen School of Computer Science and Engineering

Seattle, WA

Head Section Teaching Assistant, Computer Programming II

June 2019 - September 2019

- Coordinated course structure and lecture planning with professor
- Led weekly teaching reviews and selecting coding problems for class of 120

Teaching Assistant, Computer Programming II

September 2018 - June 2021

- Taught lessons in Java and graded weekly coding assignments for a class of 22 students
- Received a 4.97/5.00 average for effective teaching from student evaluations

Teaching Assistant, Data Programming II

December 2019 – June 2020

- Taught Python programming and data science principles to a class of 32 students

## ADDITIONAL ACCOMPLISHMENTS

### Biophotonics and Imaging Laboratory (BAIL), University of Washington

Seattle, WA

Undergraduate Researcher

September 2017 - June 2018

- Transformed 3D scans of human retina into layered 2D images using MATLAB
- Invited to come on as an employed researcher in Spring 2018