# **David Barsky**

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## **Work Experience**

Fall 2017-Present

### Amazon, Alexa Al

Software Engineer

- Integrated test data generation system into unified first/third party natural language model building/testing platform, removing distinction between and first and third-party skill development.
- Sped up test data validation tooling used by customers 22x, reducing runtime from 45 minutes to 2 minutes.
- Maintaining Rust-specific integration to Amazon-internal build/deployment systems.
- Launched the AWS Lambda Runtime for Rust.
- Designed and implemented a test data generation service used across Alexa. This new system is horizontally scalable and is 7x faster over the prior system.
- Implemented Alexa's natural language model to be hardware-capability aware. This significantly reduced engineering effort needed to support new devices and cut the public Alexa service's memory usage by 30%.

Summer 2016

#### Amazon, AWS Payments

Software Engineer (Intern)

- · Worked in Payments organization in Amazon Web Services.
- Architected and developed a distributed, fault-tolerant service for financial data auditing that simplified payments infrastructure and reduced on-call burden.

### Education

Fall 2013—2017

#### **Brandeis University**

Computer Science, B.A. with Honors.
Completed additional coursework in History and Politics

## **Selected Projects**

Rust Runtime for AWS Lambda (github.com/awslabs/aws-lambda-rust-runtime)

Launched and maintaining the Rust Runtime for AWS Lambda.

**Tokio** (github.com/tokio-rs/tokio)

- Co-maintainer of Tokio, Rust's asynchronous runtime.
- Helped launch Tracing, a unified, high-performance instrumentation system for Rust that emits logs, metrics, and traces.

Honor's Thesis (github.com/davidbarsky/sirens)

• Benchmarked job scheduling algorithms across various simulated workloads.

#### Skills

Languages: Rust, Go, Python, Swift, Java

Tooling: AWS (DynamoDB, ECS, Lambda), Unix-like systems, Docker, Git, gRPC