

# Abhinav Kasamsetty

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## Experience

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### Mercari

Remote

SENIOR SOFTWARE ENGINEER | TRUST AND SAFETY

Mar 2023 - Present

- Worked on updates to the system that searches for suspicious users based on their account data and activity using Go, Kubernetes, and BigQuery.
- Led project to upgrade the microservice warning and applying usage restrictions to users who repeatedly cancel transactions by reducing false positives so more users could buy/sell items, which improved GMV (gross merchandise value) by over \$500,000 yearly.
- Oversaw the design and planning of a feature to allow users to sell age restricted items based on age verification, which would increase GMV.

### Microsoft

Redmond, WA

SOFTWARE ENGINEER II | MICROSOFT EDGE PROGRESSIVE WEB APPS

Jan 2022 - Feb 2023

- Implemented browser APIs so developers can write PWAs, installable web apps that feel/act like native apps, that show widgets in Windows.
- Added support for PWAs to be launched by opening URLs using C++, React, and TypeScript, helping increase Edge's market share by minutes usage.
- Designed and prototyped scope extensions for PWAs in Chromium so that users can install web apps with multiple subdomains or TLDs as one PWA.

SOFTWARE ENGINEER II | AZURE VIRTUAL NETWORKING

Aug 2021 - Jan 2022

SOFTWARE ENGINEER | AZURE VIRTUAL NETWORKING

Aug 2020 - Aug 2021

- Worked on major rewrite of the core system running on millions of servers that programs the networking info for every Azure VM, reducing average VM creation time by over 25%, using C++ and a publish-subscribe data model to get networking data stored as Protobufs.
- Launched support for accessing Azure Private Endpoints from on-premises networks through Azure ExpressRoute FastPath using C#.NET.

### Amazon

New York, NY

SOFTWARE DEVELOPMENT ENGINEER INTERN | AMAZON DEMAND SIDE PLATFORM

Jun 2019 - Aug 2019

- Designed and developed a scheduling system to manage the number of tests running concurrently across the team using Java and DynamoDB.
- Created visualization of current running tests using AWS DynamoDB Streams, Lambda, and S3.

### Amazon

East Palo Alto, CA

SOFTWARE DEVELOPMENT ENGINEER INTERN | AWS DATABASE MIGRATION SERVICE

Jun 2018 - Aug 2018

- Created an end to end notifications system to inform customers, improving time it takes to notify them from days to minutes (over 57,000% faster).
- Added an API to create notifications using Java and Oracle DB and an interface in the AWS Console to display notifications using React and TypeScript.

## Skills

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**Programming Languages** Java, Python, JavaScript, C++, C#, Go, TypeScript

**Technologies** AWS, GCP, Azure, Kubernetes, Terraform, Node.js, React, Express, Flask, .NET, Jest, Pytest, JUnit, SQL, BigQuery

## Projects

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### JikanPy

[pypi.org/project/jikanpy](https://pypi.org/project/jikanpy)

PYTHON, REQUESTS, AIOHTTP, MYPY, PYTEST, VCR.PY

Apr 2018 - Dec 2022

- Wrote a Python library for the MyAnimeList unofficial Jikan API supporting both sync and async usage that had over 2 million monthly downloads.

### DoctorSearch

[gitlab.com/krysehun/doctorsearch](https://gitlab.com/krysehun/doctorsearch)

PYTHON, FLASK, POSTGRESQL, POSTMAN, AWS EB, AWS RDS, NODE.JS, REACT, MATERIAL UI, CHAI, MOCHA, PYTEST

Oct 2019 - Dec 2019

- Constructed a web app that provides information about doctors and specialties in 50 major cities supporting filtering, sorting, and searching.

## Education

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### The University of Texas at Austin

Austin, TX

B.S. IN COMPUTER SCIENCE

May 2020

- Graduated with Honors, President's Horizon Scholarship