Isaac Na

+1 404-643-6826
isaac219@gmail.com
github.com/isaacna
linkedin.com/in/isaac-na-820b96115
1525 Harvard Ave, Unit 502, Seattle, WA 98122

EDUCATION

Washington University in St. Louis

Bachelor of Science in Computer Science — *August 2015 - May 2019*

GPA: 3.45/4.00 — **Major GPA**: 3.62/4.00 — Dean's List

EXPERIENCE

Amazon — Seattle, WA

Software Development Engineer II — *April 2021 - Present*

Software Development Engineer I — *July 2019 - March 2021*

- Work on the Mass Item Creation and Edit team that owns systems for listing retail items in bulk through Vendor Central
- Designed and implemented a gating system that prevents unauthorized vendors from listing luxury beauty retail brands, and ensures that the brands are correctly financially categorized. Launched worldwide for all Vendor Central users
- Designed and implemented a transition of retail submission backend systems to a new metadata schema that allows vendors to upload items in variations (size, color, etc.). Launched worldwide for all Vendor Central users
- Wrote an emergency backfill script to identify impact of item cost bug that would have lost vendors over $30MM
- Paginated the item submission history page, increasing the view of item submission history from 30 submissions to an unlimited range. Estimated savings of $20MM

Software Development Engineer Intern — *May 2018 - August 2018*

- Worked on the Selling Partner Systems and Experience team to improve Amazon Vendor Central's poll question system that UX researchers utilize to gather feedback data from vendors
- Developed a new backend process using Java to handle automated question deactivation, multiple question support, and Amazon SNS integration while maintaining scalability and clean object-oriented design. Launched the project worldwide.

Council Data Project — Seattle, WA

Open Source Developer — *November 2019 - Present*

- Contribute to Council Data Project (CDP), a JOSS-published, open-source civic tech project that makes city council transcripts, legislation, and voting records searchable through a single website (councildataproject.org)
- Wrote ETL pipelines with Prefect, transcription models leveraging Google Speech-to-Text, and database and filestore processing tools in Python to interact with Google Cloud Platform
- Maintain scalable, low-cost infrastructure-as-code architecture leveraging GCP and Pulumi, and collaborate with devs on design decisions
- Presented CDP's design at PyCascades 2022, a Python-focused tech conference in the Pacific Northwest (Presentation link)

AT&T — Atlanta, GA

Software Development Intern — *June 2017 - August 2017*

- Replaced and automated a manually-run metric logging system with a Java project that pulls data using Elasticsearch to format a report in Outlook mail, reducing the time spent from 30 minutes to 20 seconds
- Developed a Chatbot for Q Enterprise Messenger that utilized a machine learning and natural language processing API

Washington University School of Engineering and Applied Science — St. Louis, MO

Database Management Systems Tutor — *February 2019 - May 2019*

- Tutored students on conceptual fundamentals and provided assistance on labs for a graduate level database course

Data Structures and Algorithms Teaching Assistant — *January 2017 - May 2019*

- Lead group discussions during in-class assignments and graded exams for Data Structures and Algorithms Course

SKILLS

- **Proficient** - Java, Python
- **Familiar with** - Kotlin, C++, C, SQL, PHP, JavaScript, JSP, React, HTML, CSS
- **Technologies** - Git, Flask, Linux, GitHub Actions, Google Cloud: Firestore, AWS: S3, Cloudfront

PROJECTS

- **Stress Less (ArchHacks 2017)**: Chrome Extension that helps manage anxiety and gather statistics on the user's mental health, by utilizing JavaScript and the Chrome Storage API to hold data about extension usage
- **Venn**: Android app utilizing MySQL, PHP, EC2 for generalized Tinder-style matching within user-created communities
- **TwitchTab**: Chrome Extension that replaces the new tab with customizable interface displaying Twitch streams and clips
- **TempX**: npm-published Node.js command line utility that manages reusable templates for file extension types
- **DailyFeed**: Python Reddit bot that condenses top daily posts from subreddits into a formatted PM in parallel with threading