

Andy Wang

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Skills

Programming Java, Rust, SQL, Python, Javascript, Typescript, Node, React, Vue
Tooling PostgreSQL, MongoDB, RabbitMQ, AWS, Git, Docker, Kubernetes

Work Experience

Hive AI

Software Engineer

San Francisco, CA

Jul 2023 - Now

- Key contributor to a fast-moving product team. Collaborate closely with ML engineers to drive feature development for an AI art generator **utilized by 14 million users worldwide**.
- Designed and implemented an automated, distributed system of worker processes that efficiently delete stale data, resulting in a **300TB (60%) reduction in Amazon S3 usage** and an **estimated annual cost savings of \$80K**.
- Led the development of architectural improvements for various internal microservices, which **decreased application size from 1.5GB to 300MB (80%)** and **reduced deployment time from 12 to 3 minutes (75%)**. These changes subsequently **led to a 500ms improvement (50%)** in API response latency.
- **Technical Skills:** Rust, PostgreSQL, RabbitMQ, AWS, Actix Web.

Stripe

Software Engineer Intern

Seattle, WA

May 2022 - Aug 2022

- Owned and developed reusable React component for the Stripe Elements UI library that handles phone number collection and validation and supports over 236 regional formats. **Used by over 100K businesses globally** to efficiently collect shipping and billing addresses.
- Collaborated with designers and technical writers to present UI components on public Stripe Elements documentation. Integrated **fully-functional, configurable demos of various UI components**.
- **Technical Skills:** Typescript, Javascript, React, Jest, Playwright.

Amazon

Software Engineer Intern

Seattle, WA

May 2021 - Aug 2021

- Designed and implemented a dynamically rendered cart ingress button on Alexa's core "add to cart" shopping flow that **handles millions of interactions per day**. Enables users to seamlessly transition to their Amazon cart on multi-modal Echo devices without a voice command.
- Developed modular solution to support asynchronous data operations in the Alexa backend processing pipeline. Used by other projects to further improve Alexa Shopping interactions.
- Led "bug bash" feature testing to verify compatibility across all Echo devices. Subsequently **deployed to over 30 million users in the US and EU**.
- **Technical Skills:** Java, Javascript, Ubuntu Linux.

Projects

Foster Child Welfare: Understanding Volunteer Advocacy Through Statistical and Artificial Intelligence Methods

Senior Thesis Project, Team Leader

Houston, TX

Aug 2022 - Dec 2022

- Led team of four undergraduate and two graduate statistics students in a comprehensive analysis of child custody court case data. Used survival analysis and causal inference methods to provide insights on optimizing volunteer activities to expedite cases and better achieve favorable outcomes for foster children.
- Trained an auto-encoder neural network to quantify volunteer engagement based on activity data. Developed an application to help non-technical stakeholders generate engagement scores to evaluate volunteer efficacy.
- **Technical Skills:** Python, TensorFlow, NumPy, Pandas, SciKit-Learn, R, Git.

Education

Rice University

Bachelor of Arts

Houston, TX

2019 - 2023

- Double Major in Computer Science and Statistics.
- **Teaching Assistant** for Operating Systems, Advanced Object Oriented Programming, and Database Systems.