

Derek Ye

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SKILLS

Languages: Python, Java, Javascript, HTML/CSS, SQL, Rust, Haskell

Technologies & Frameworks: React.js, Typescript, Node.js, Django, Postgres, Spark, Airflow

EXPERIENCE

Software Development Engineer — Amazon **September 2022 – January 2023**

- Reduced runtime and amount of S3 storage space for the keyword clustering system that drives Amazon's ad keyword spending by filtering on keyword freshness and optimizing dataframe join logic.
- Wrote integration tests to improve testing observability for Amazon's "Best Overall Widget", a product detail page widget that serves millions of visits per day and generates millions of dollars worth of conversions per year.

Fullstack Software Engineer Intern — Mercury **Summer 2022**

- Simplified credit approval workflow by developing a form page for underwriters to evaluate customer creditworthiness. Frontend built with **React.js**, backend with **Haskell** and **Postgres**.
- Updated frontend logic to ensure form state persistence on our demo site's venture debt questionnaire [page](#).

Fullstack Software Engineer Intern — Supplyframe **June 2021 – September 2021**

- Optimized product checkout flow used by 400K+ monthly customers at [tindie.com](#) by building a shipping fee calculator for the product detail page.
- Implemented frontend redesign for [tindie.com](#); updated and removed outdated Bootstrap styles.
- Investigated and patched XSS vulnerabilities in Express.js backend using Burp Test Suite.

Fullstack Software Engineer Intern — Supplyframe **June 2020 – September 2020**

- Sped up database transactions for backend data-processing tasks by migrating from **Django** to **Apache Airflow** and removing unnecessary **SQL** queries (decrease of >60% LOC).
- Overhauled HTML email template styling and increased codebase test coverage to enhance platform stability.

PROJECTS & EXTRACURRICULARS

Frontend Engineer — [Hack@UCI](#)

- Developed multiple single-page web applications used by 10,000+ students for UCI's hackathon-planning club using **React.js** and **Sass**.

Software Engineer Intern — [Agora Neos](#)

- Led a team of 3 to resolve backlogged bugs on Agora Neos' **React.js** & **Nest.js** bond-trading [platform](#).

Programmatic SEO Website — [climbingpal.com](#)

- Web app to grow organic web traffic using programmatically generated pages, GPT-3-generated text, and web-scraped content. Frontend built with **Next.js** and **Typescript**, scraping done with **Selenium** and **Flask**.

EDUCATION

University of California, Irvine

2018 – 2022

B.S. in Computer Science, Minor in Human-Computer Interaction

GPA: 3.81 (Dean's Honor List, 10 quarters)