Zishi Wu

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Software Engineer

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Work Experience

Software Development Engineer   June 2022 — Present
Amazon   *Arlington, VA*

- Migrated ad rendering on the Amazon retail website and mobile app to a new internal framework that eliminated security risks and reduced server side ad rendering latency by 300 milliseconds, which is estimated to **increase display ad revenue by 6 million USD annually**.
  - During testing phase of migration, discovered and fixed a critical bug that was causing 10% of ads on the Amazon mobile app to not render.
  - Verified the migration changes prior to launch by writing integration tests using an internal framework built on **Selenium** and **Java**.
- Implemented changes to make ads load faster using **TypeScript**, **NodeJS**, **HTML**, and **Java**. The changes helped reduced client side ad rendering latency by 100 milliseconds on average across all ads on the Amazon retail website and mobile app, which is estimated to **increase display ad revenue by 10 million USD annually**.
  - Created integration tests to verify the changes and metric dashboards to quantify the latency reduction.
  - Worked with partner teams to ensure this change was compatible with both display and video ads.
- Unblocked the launch of a new Amazon video ad product by fixing critical bugs for the video player software component using **TypeScript** and **NodeJS**.

Software Engineer   July 2021 — June 2022
AT&T   *Atlanta, GA*

- Led a 2-person team to create an internal tool used by auditors to track security upgrades for over 500 buildings owned by AT&T. Developed the tool using **JavaScript**, **HTML**, **CSS**, **Bootstrap**, **PHP**, and **Microsoft SQL Server**.
  - Designed a **relational database** to model business rules for different types of building security upgrades.
  - Designed a **user interface** for users to input data on new buildings and retrieve data on existing buildings.
- Developed a web service that generated Excel reports for AT&T wireless service installations using the **Flask web framework**, **Python**, **Microsoft SQL Server**, and **JavaScript**. This tool was used by 20 internal teams to get weekly reports for business metrics.

Skills

Computer Languages	Python, Java, TypeScript, JavaScript, HTML, CSS
Technologies	Microsoft SQL Server, AWS, Git
Human Languages	English, Mandarin Chinese (speaking and reading)

Education

M.S. in Computer Science, *University of Miami*   May 2021
B.S. in Computer Science, *University of Miami*   May 2018