Lucas Zhu

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Education

2024	***University of Pittsburgh***
	B.S. in Computer Science, **Minor** in Economics
	Relevant Coursework: Intermediate Object-Oriented Programming with Java, Algorithms and Data Structures, Discrete Structures, Assembly, Computer Systems

Professional Experience

05/2023 – 08/2023	**Software Developer Engineer Intern,** Amazon

- Enhanced our scaling process by adding individual client metrics, ensuring precise provisioning for customer databases based on their usage history
- Implemented AWS Cloudwatch Contributor Insights for real-time visualization of service errors during large scale events.

05/2022 – 08/2022	**Software Developer Engineer Intern,** Amazon

- Upgraded our team's CI/CD pipelines to use AWS CDK (Cloud Development Kit), streamlining deployments and eliminating manual commands during code deploys.
- Implemented canary deployments for AWS Lambda services to reduce customer impact during potentially problematic code releases.

09/2021 – 04/2022	**Software Engineer,** Mobius Materials ☐

- YCombinator-backed software startup that reduces e-waste by connecting buyers and sellers of used electronic components
- Responsible for all React frontend work and connecting frontend/backend for new features.

Projects

Command Line Personal Website, Github ☐

- Created a command-like user experience for my personal website.
- Developed using ReactJS+Astro and Tailwind

NBA Handicapping Model, Github ☐

- Engineered a handicapping model that produces a prediction of overall winner in a given NBA matchup
- Utilized four factors of basketball as well as momentum and value strategies to account for overall team performance and hot/cold streaks; built with Python

BitBots.trade

- Independently launched an online trading bot that exchanges bitcoin for in-game currencies.
- Developed with Node.JS, MySQL, and bcoin library. Customers interacted with the bot through the Steam game platform
- Transacted $1000+ of customer currency with 50+ users

Skills

Proficient: Frontend Web Dev, JavaScript, React, Java, Python, Git, HTML/CSS, Advanced Google Search

Familiar: TypeScript, C, MySQL, Adobe Suite, Fusion 360

Volunteer Experience

Technical Advisor, *Rayos Contra Cancer*. Provideded technical guidance to a nonprofit that provides remote training for doctors in low-income countries.