

Jesse W. Xu

Aspiring Full Stack Engineer and Product Manager

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Education

University of Pennsylvania, Philadelphia, PA

Expected Graduation: May 2021

Candidate for Bachelor of Applied Science in Computer Science

Minors: Engineering Entrepreneurship, Design from the School of Engineering and Applied Science.

Cumulative GPA: 3.75 / 4.00

Work Experience

Cisco/ThousandEyes, New York, NY

May 2020 – August 2020

Software Engineering Intern

- Post-acquisition by Cisco, leveraged familiarity with the ThousandEyes web application architecture to build an alerting microservice, working as part of the Enterprise Networking and Cloud team to improve versatility and scalability in the platform.
- Designed APIs for and rewrote SQL queries in the alerts repository to promote decoupling between different business functions.
- Implemented a command palette feature in the ThousandEyes custom scripting IDE with Babel and Visual Studio's Monaco editor, delivering a requested customer feature and improving user experience.

ThousandEyes, San Francisco, CA

May 2019 – August 2019

Software Engineering Intern

- Owned a feature for a cross-application credentials management system from specification to release, collaborating with design and product teams to help ThousandEyes reach a major security milestone for its browser-based scripting offering.
- Built a settings page in the ThousandEyes web application and modified a custom IDE with TypeScript, Vue.js, and Spring for credentials integration.
- Developed APIs for the storage, creation, and maintenance of credentials for ThousandEyes' browser automation applications.
- Winner of the "People's Choice" award of the 2019 ThousandEyes Hackathon for a custom Slack bot hosted on Heroku and persisted in MongoDB, selected from 27 projects and 120 participants.

Unisys, Malvern, PA

June 2018 – August 2018

Software Engineering Intern

- Designed and built an internal DevOps application in C# and .NET's WPF to streamline formatting operations for the I/O team, a task previously accomplished manually through a hex editor.
- Modified an existing hex editor tool to allow modification of non-Unisys formatted disks, present in roughly 30% of legacy systems supported by the team.

Penn Institute for Biomedical Informatics, Philadelphia, PA

September 2017 – April 2018

Research Assistant

- Analyzed more than 100,000 records from selected hospital data sets to investigate the practical application of the PennAI machine-learning software in modeling re-admittance rates for patients of various cancers and illnesses.
- Assisted Professor Jason Moore in monitoring and maintaining the AWS EC2 instances running the application.

Leadership and Professional Development

Hexagon Engineering Society

December 2020 – Present

Vice President

- Assisted the Engineering Admissions Office in personalizing the admissions process by organizing over 20 student-led tours for prospective/transfer students of the School of Engineering and Applied Science.
- Increased chapter attendance by 30% in monthly meetings through the adoption of an accountability system between members.

Penn International Affairs Association

September 2018 – Present

Director of Operations

- In charge of planning conference logistics and technical upkeep for the largest club at Penn by student membership.
- Managed operations for an annual intercollegiate conference of over 700 participants including registration and billing, venue negotiations, and technical requirements.
- Implemented a rebuild of the website with Python Flask, including an automated registration system to reduce manual overhead.

Skills and Achievements

Programming languages:

JavaScript, Java, Typescript, Python, C#, Kotlin, SQL

Frameworks and Tools:

Vue.js, React.js, Node.js, React Native, Jest, Electron, Selenium, Babel, Heroku, Spring, Webpack, AWS EC2, MongoDB, DynamoDB, Jira, Git, Docker, .NET

Languages:

Fluent in spoken and written Chinese (Mandarin)

(2013) Became the youngest scout in PA district 9 to earn the rank of Eagle Scout

(2015) SAT: 2400, SAT Math II: 800, SAT Chem: 800

(2019, 2020) Dean's List Recipient with Term GPAs of 3.87 and 3.86