

IVAN ZHANG

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EDUCATION

Lehigh University

Bachelor of Science in Computer Science - GPA: 3.46

Aug. 2021 – May 2025

Bethlehem, PA

TECHNICAL SKILLS

Languages: Python, TypeScript / JavaScript, Java, C / C++ , C#, R, Rust, SQL, Dart, HTML, CSS

Frameworks: Next.js, React, Express, Node, Flutter, Flask, .NET, Spark, Jest, Cypress, JUnit

Databases: MongoDB, Postgres, Firebase, Supabase, ElephantSQL

Tools & Technologies: AWS, Git, Agile, Scrum, Docker, Postman, Jira, Bash, Linux, Maven, CMS, Drupal

WORK EXPERIENCE

Comcast NBCUniversal

Software Engineer Intern

Jun 2024 – Aug 2024

Remote

- Improved the processing of financial data **by 25%** by revamping a legacy financial reports application with TypeScript, React, and .NET, leading to more accurate and timely financial insights
- Implemented an admin module that allows admins to manage financial snapshots through CRUD operations within a data table, streamlining administrative tasks and improving data management efficiency
- Developed key functionalities for the application, including a dashboard, report downloading, graph visualizations, settings panel, and **over 8** front-end views for report data

Nasdaq Center

Software Engineer Intern

Jan 2024 – May 2024

Remote

- Developed core features for an internal payment software application at Studio Corsair, **resulting in a 50% improvement** in the company's payroll processing efficiency (TypeScript, Jest, Postman, Linux)
- Integrated TimeDoctor and Revolut APIs within the application to automate payments to employees based on tracked work hours and pay rates, leading to more accurate and timely payroll management
- Updated outdated software dependencies and incorporated ESLint rules into the GitHub workflow, ensuring best coding practices and improved code quality

New York City Housing Development Corporation

Application Development Intern

June 2023 – Aug 2023

New York, NY

- Developed an application for the human resources department to manage and manipulate employee information, reducing the employee badge printing process time **by 50%** (C#, .NET, ASP.NET)
- Optimized operational efficiency for the IT Department by creating **over 20 digital workflows** for company policies and equipment management, leading to streamlined processes (Formstack)
- Leveraged KnowledgeLake to index financial documents, enabling seamless data retrieval for the accounting department

Lehigh University Library & Technology Services

Web Developer

Aug. 2022 – Present

Bethlehem, PA

- Maintain **over 160 websites** across Lehigh University by addressing front-end issues via Jira ticket requests, ensuring consistent and up to date functionality (HTML, CSS, JavaScript)
- Completed content migration and theme updates of **over 300** web pages by transitioning from Drupal 7 to 9, resulting in improved site performance and modernized design
- Improved overall website accessibility score **by 10%** across all Lehigh's websites by using Dubbot to identify and resolve accessibility concerns

PROJECTS

Capstone: Lutron Multi-User Floor Plan | NextJS, TypeScript, Firebase, Cypress, Jest

Jan 2024 – Present

- Engineering an application for Lutron that enables professional liaisons to annotate floor plans in real time with multiple collaborators
- Created software architecture diagrams and documentation, and conduct weekly presentations to Lutron's software engineers to gather feedback and drive iterative improvements