

# IVAN ZHANG

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## EDUCATION

### Lehigh University

Bachelor of Science in Computer Science

Expected May 2025

Bethlehem, PA

## TECHNICAL SKILLS

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

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

**Databases:** MongoDB, Postgres, Oracle, Firebase, Supabase

**Tools & Technologies:** Amazon Web Services (AWS), Git, Docker, Postman, Vite, Bash, Linux, Maven, Google Cloud

**Development Methodologies:** Agile, Scrum, Kanban, Jira, Trello

## WORK EXPERIENCE

### Comcast NBCUniversal

Jun 2024 – Aug 2024

Software Engineer Intern

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

Jan 2024 – May 2024

Software Engineer Intern

Remote

- Implemented 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- Updated outdated software dependencies and incorporated ESLint rules into the GitHub workflow, ensuring best coding practices and improved code quality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

Jun 2023 – Aug 2023

Application Development Intern

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

Aug 2022 – Sep 2024

Web Developer

Bethlehem, PA

- Maintained **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