**Lixing (Chris) Chen**

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**EDUCATION**

**Northeastern University**  September 2022 – August 2025

Master of Science in Computer Science, GPA: 4.0

**University of Denver** September 2018 – June 2022

Bachelor of Science

**EXPERIENCE**

**Pixelogic Media**  Burbank, CA

**Software Engineer Intern**  January 2025 – April 2025

* Developed an **AI**-powered audio watermark embedding application using a trained AudioSeal model within an **AWS Serverless** architecture to enhance antipiracy tracing and safeguard copyrights in the movie postproduction industry.
* Configured resources in **SAM** templates, orchestrated workflow by invoking **Lambda** functions with **Step Functions** and **EventBridge**.
* Integrated an **LLMs**-based chatbot into Microsoft Teams UI, leveraging **Azure** for OAuth 2.0 authentication and routing Microsoft Graph API subscription notifications via **SQS** to the Llama API asynchronously, reducing average response time from 2 minutes to 10 seconds.
* Configured XML files as video and audio quality control verifier profile within a **C#** and **.NET** CLI application, leveraging FFMPEG CLI to customize test assets, resulting in an 80% reduction in manual verification time.
* Developed a web scraper with Playwright in **JavaScript** and **Node.js** to monitor **HTML** changes on Disney websites by comparing SHA-256 hash stored in **S3** buckets. Automated the movie frame replacements by merging **Linux** directories and hard-linking files in **Python**.

**NagraStar**  Englewood, CO

**Software Engineer Intern**  June 2024 – August 2024

* Developed a software dependencies version management web application on a **Linux** environment within **Docker** containers to streamline new software product releases for the satellite television industry.
* Designed **RESTful APIs** using **Flask** to process version data extracted from Nexus Repository APIs via Regex, or **PostgreSQL** databases through **SQLAlchemy** ORM, generating XML reports and uploading them to FTP servers.
* Implemented multi-clients and multi-products support using Object-Oriented Programming (**OOP)** principles, enhancing system scalability by 50%. Built an automated pipeline for validating XML files, improving data integrity by 30%.
* Enhanced the UI in **HTML**, **CSS**, **JavaScript**, and jQuery, leveraging Ajax for JSON transfer and Jinja templates for server-side rendering.
* Monitored **Kubernetes** cluster and **OracleDB**’s health status and configured a **CI/CD** pipeline and Cron jobs on GitLab for that **Python** script to send daily health reports to on-call engineers.

**InstaHub**  Philadelphia, PA

**Software Engineer Intern** January 2024 – May 2024

* Developed temperature visualization dashboards within an **AWS Serverless** architecture to monitor IoT devices deployed across commercial buildings, optimizing HVAC systems management.
* Crafted a **React** user interface and reusable components with **TypeScript**, **CSS**, and hooks for state management, deployed on Amplify.
* Constructed a real-time data streaming pipeline using **DynamoDB** Streams to track sensor updates, decoupled the data ingestion with **SQS** as a message queue, and delivered to client-side via **WebSocket** API in **API Gateway**.
* Implemented **S3** event-driven **Lambda** functions in **Python** within a VPC to parse uploaded CSV files and store the data in **RDS**.
* Leveraged Infrastructure as Code (**IaC**) to create and deploy **CloudFormation** stacks with CDK, and managed resources with SDK.

**One Community Global**

**Open-Source Contributor**

* Contributed new full-stack pages and bug fixture in a construction tool app in **React** with Redux for global state management.
* Designed **RESTful APIs** using **Express.js** and **Node.js** to manage data in a **MongoDB** database with Mongoose schema validation.
* Constructed comprehensive unit and integration tests with **Jest** and integrated with CircleCI for automated build and testing.

**SKILLS**

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

**Frameworks:** Flask, Spring Boot, .Net, Django, Serverless, React, Node.js, Express.js

**Tools:** AWS, Azure, GCP, MySQL, PostgreSQL, NoSQL, Docker, Kubernetes, Git, Linux