# EDUCATION



**The University of Chicago** Chicago, IL

M.S. in Computer Science May 2025 (Expected)

Coursework: Cloud Computing, Databases, Algorithms, Web development, Distributed Systems, Generative AI

**State University of New York** New York, NY B.S. in Fashion Business Management | Minor in Mathematics May 2023

# SKILLS



**Programming Languages:** Python, Java, Scala, JavaScript, TypeScript, SQL, Shell, HTML, CSS

**Tools/Frameworks:** AWS, Kubernetes, Jenkins, Flask, React, Node, Nest, Express, Vue, Postman, Git, MySQL, MongoDB, PostgreSQL, Hadoop, Spark, Kafka

# PROFESSIONAL EXPERIENCE



**Tempus AI** Chicago, IL

*Software Engineering Associate* June 2024 – August 2024

* Reduced data generation time by 60% by developing a test data generation tool for the testing pipeline.
* Accelerated delivery of new features by implementing a **CI/CD** pipeline with **Jenkins**.
* Built the tool’s front-end using **TypeScript, React, HTML**, and **CSS** to support 500+ users, enabling test ordering, result viewing, advanced filtering, pagination, dropdown menus, and URL redirection functionalities.
* Streamlined workflows by implementing real-time notifications with **AWS SNS**, creating an **API endpoint** for event completion alerts, and using **AWS Lambda** for automated email dispatch.
* Optimized **PostgreSQL** database modeling by constructing a centralized jobs table, resulting in a 20% decrease in query time; performed database migration to ensure data consistency.

**University of Chicago Tech Team** Chicago, IL

*Software Engineer Volunteer* January 2024 – April 2024

* Led a 15-member team using **Agile** methodologies to develop impactful tools, coordinating tasks through **Jira** and managing weekly meetings.
* Developed and deployed a **Flask**-based genomics annotation service on **AWS EC2**, integrating **DynamoDB** to store data, enabling users to upload annotation files, browse results, download files, and view detailed logs.
* Optimized resource allocation by deploying an **auto-scaler** and **load balancer**, and setting up **CloudWatch** alarms, handling over 300 peak-time requests efficiently.
* Reduced storage costs by 40% with a tiered storage solution using **AWS Glacier** for archiving free user data and **AWS S3** for premium access, ensuring seamless data restoration and upgrade capabilities.

**Longham Technology** New York, NY

*Operation Assistant* June 2022 – June 2023

* Boosted team productivity by 30% by communicating with business stakeholders to understand their needs and developing tailored internal tools.
* Enhanced efficiency in tracking employee records by 20% through engineering the full stack of an employee management system using **MongoDB**, **Express**, **React**, **and Node**.
* Developed a **Java**-based user analysis platform with **Lambda architecture**, providing insights into user behavior and subscription patterns, reducing customer churn by 20%.

# PROJECTS

**Video Converter Microservices App** November 2023 – December 2023

* Improved app scalability and maintainability by 25% by deploying it on a **Kubernetes** cluster, utilizing **Docker** for containerization.
* Attained a 15% decrease in user wait time by integrating **RabbitMQ** into API Gateway to resolve performance issues and enable it to handle high-volume HTTP requests.
* Resulted in a 10% improvement in system security by deploying a **JSON Web Token** authentication service and utilizing **MySQL** to store user login information.
* Improved test coverage by 25% by following **Test-Driven Development** and conducting automation, unit, and integration tests.