

James Lako

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Education

University of Rochester | Rochester, NY

Bachelor of Arts, Computer Science | Dec 2023

- **Coursework:** Data Structures & Algorithms, Artificial Intelligence, Computer Systems Organization, Database Systems & Administration, Design & Analysis of Efficient Algorithms, Computer Networks, Collaborative Software Development, Web Development, Kotlin Android App Development

Skills

- **Languages:** Python, Java, JavaScript, C, Rust, TypeScript, Tailwind CSS
- **Databases:** MongoDB, MySQL, Snowflake
- **Tools/Frameworks:** AWS, GCP, Docker, Kubernetes, ReactJS, Linux, Git, Jira, Gitlab, Microsoft Office suite, SQL, Data Matching, Identity Resolution, Automation of Data Processes

Work Experience

Software Engineer | University of Rochester IT

Sep 2022 – Dec 2023 | Rochester, NY

- Built and maintained a scalable backend system for a lending library application serving over 2,000 users, using JavaScript and Node.js: optimized database interactions with **MongoDB**, enhancing performance and user experience.
- Enhanced system efficiency by optimizing JavaScript code and adhering to software design patterns and best practices, improving scalability and reliability.
- Designed and implemented automated testing procedures, improving software quality, and reducing bugs by 30%, demonstrating strong attention to detail in unit and integration testing practices.
- Collaborated with cross-functional teams to develop automated data processing solutions using **AWS Lambda** and **MongoDB**, reducing system downtime by 20% and enhancing system reliability.

Software Engineer Intern | Piyata Limited

Jul 2021 – Dec 2021 | Remote

- Developed and optimized backend processes using JavaScript and Node.js for a beauty app, reducing server response times by 40% and enhancing system performance.
- Conducted comprehensive data analysis using **MongoDB**, ensuring data accuracy and privacy compliance; provided actionable insights that informed strategic changes and venture investment decisions.
- Improved system load performance by 8% through diligent unit and integration testing practices and code optimization, demonstrating excellent problem-solving skills.
- Adhered to software design patterns and coding standards, enhancing scalability and reliability in distributed computing environments.

Corporate Venture Capital & Business Analytics Intern | HP Tech Ventures

Jan 2024 – Apr 2024 | Remote

- Conducted venture capital research on tech startups using data analytics tools; identified investment trends in emerging markets.
- Evaluated business models and market opportunities, enabling strategic investment recommendations aligned with corporate innovation goals.
- Compiled and analyzed critical data, providing actionable insights into potential high-growth startups.
- Supported venture investment decisions through comprehensive analysis and reporting.

Projects

Distributed Version Control System

- Collaborated in a team to design and implement a modular version control system using **Python** and **Git**, optimizing data matching and version control through efficient identity resolution techniques, demonstrating strong understanding of software design patterns.

Connect Four (Artificial Intelligent Agent)

- Developed an AI agent in **Python** using advanced adversarial search and alpha beta pruning techniques, achieving a 95% win/tie ratio within 45 milliseconds, showcasing problem-solving skills and proficiency in efficient algorithm design.