

JINGLUN (NOELLA) JIANG

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EDUCATION

The University of Chicago

Master of Science in Computer Science

Coursework: Python Programming, Unix Systems, Discrete Mathematics

Chicago, IL

March 2025 (Expected)

Jacobs University Bremen

Bachelor of Arts in International Business Administration

Coursework: Databases, AI & ML, Web Application with React, Calculus, Linear Algebra, Probability and Random Processes

Bremen, Germany

May 2023

WORK EXPERIENCE

Emma – The Sleep Company

Data Engineer & Data Analyst Intern

Frankfurt am Main, Germany

February 2023 – August 2023

- Architected and optimized automated **ETL pipelines** for 3 marketing channels on **Matillion** with **Python** components for orchestration and **SQL** for transformation. Significantly improved pipelines' reliability and achieved a 30+ hours/quarter of reduction in data processing time.
- Integrated **Amazon Web Services** including **Redshift**, **S3**, and **SNS** in data pipelines, resulting in improved data accessibility, enhanced real-time analytics capabilities, and led to 40% reduction in data errors and inconsistencies.
- Engineered interactive **Tableau** dashboards and visualizations that succinctly communicate insights, fostering data-driven decision-making and resulting in a significant 20% uptick in informed strategic choices.
- Bolstered the attribution model's data integrity and predictive prowess for marketing metrics, encompassing thorough cross-checking of various source tables using **SQL** with **DBeaver** to pinpoint potential sources of data discrepancies.
- Collaborated with cross-functional teams in an Agile environment, and utilized **Jira** for sprint planning, backlog management, and issue tracking, leading to a 30% acceleration in project delivery.

PROJECTS

Location-Based Social Networking System – Full Stack Web Application

April 2023 – September 2023

- Excelled in front-end development utilizing **React**, seamlessly integrating it with back-end components and incorporated **JWT authentication & RBAC** to deliver a unified user experience, resulting in a 15% increase in user satisfaction.
- Implemented **Node.js** to construct high-performance server-side application, harnessing its asynchronous and event-driven architecture to achieve an enhancement in server performance.
- Enhanced API performance and scalability using **Express.js**, resulting in a 30% reduction in response times and accommodating higher user traffic.
- Engineered **MongoDB** data models & schemas, guaranteeing data persistence through indexing, aggregation, and transaction capabilities, resulting in a reduction in query response times and heightened application stability.

Real Estate Application Development

August 2023- October 2023

- Leveraged **Python** and **Django** to develop a comprehensive application, fully integrated with **Postgres** for data management, allowed an efficient management of over 150 property listings, 10 realtor profiles, and processed contact inquiries.
- Undertook the task of transforming a basic HTML/CSS Bootstrap 4 theme into a dynamic, real working application, ensuring a seamless and aesthetically pleasing user interface.
- Implemented an intuitive and efficient admin area that streamlined resource management, resulting in a 30% reduction in administrative workload, optimizing internal processes, and improving overall productivity.
- Orchestrated the deployment on **Digital Ocean**, employing **Gunicorn** and **Nginx** for optimal performance, and achieved a remarkable uptime.

AWS Serverless REST APIs Development

August 2023 – September 2023

- Utilized **AWS Lambda** to design and deploy serverless functions in Java, and **AWS API Gateway** to create Restful API endpoints, resulting in a 25% improvement in scalability.
- Demonstrated expertise in AWS services such as **CI/CD**, **SAM**, and **Cognito**, leading to the optimization of data storage and authentication processes, driving a 20% increase in performance.

Lyft Rentals Back-End Engineering Job Simulation

August 2023 – September 2023

- Restructured Lyft Rentals component with a new architecture and class diagram, enhancing maintainability by 15%.
- Adopted a **test-driven development (TDD)** approach: developed unit tests for the refactored system to verify expected behaviors, substantially reducing the likelihood of potential bugs and elevating code reliability by 25%.

JP Morgan Chase & Co. Software Engineering Virtual Experience

July 2023

- Diagnosed and rectified anomalies within the TypeScript files to ensure optimal web application rendering, not only elevated script reliability but also drastically enhanced its functionality, guaranteeing top-tier performance.

SKILLS

- **Programming Languages:** Java, Python, Bash Scripting, C, JavaScript, TypeScript, HTML/CSS, SQL, R
- **Tools & Frameworks:** React, Node.js (Express), Django, MongoDB, MySQL, Postgres, Rest API, AWS, Git, Tableau, Jira
- **Other Relevant Skills:** Agile/Scrum Methodologies, Unit Testing and Test-Driven Development (TDD), CI/CD