STANLEY KIM

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Education

Purdue University   **August 2022 – May 2025**
Bachelor of Science in Computer Science; GPA: 3.64   *West Lafayette, IN*
- **Relevant Coursework**: Introduction to Analysis of Algorithms, Data Structures and Algorithms, Software Engineering, Systems Programming, Software Testing, Computer Architecture, Discrete Mathematics
- **Awards**: Recipient of William C. Nylin Jr. Endowed Scholarship, Dean's List and Semester Honors

Experience

Software Engineer Intern   **May 2024 – Present**
Kohl's   *San Ramon, CA*
- Developed a **Java Spring Boot** microservice for managing vendor attribute data, implementing CRUD operations and integrating with **MongoDB** for scalable data storage.
- Built and maintained a **RESTful API** for catalog search functionality, leveraging **AWS** to enable serverless deployment and scalable search capabilities.
- Automated data extraction and transfer processes using **Spring Batch** and **AWS S3**, ensuring seamless data migration and consistency across environments.
- Utilized **MongoDB** for intermediate data storage and achieved a 40% improvement in data processing efficiency.

Technology Intern   **May 2023 – August 2023**
Comerica Bank   *Auburn Hills, MI*
- Engineered custom **Java** scripts to automate HR bulk change procedures, drastically reducing a two-week manual process into an efficient, streamlined workflow.
- Utilized **MySQL** database APIs to efficiently access and manipulate data within **SailPoint IdentityIQ**.
- Collaborated with HR Operations to synchronize critical employee information, including role changes, transfers, and terminations, across multiple platforms.

Software Engineer Intern   **May 2022 – August 2022**
Quantic   *King of Prussia, PA*
- Leveraged **PostgreSQL** for backend data engineering, performing data retrieval and processing to extract critical performance metrics for store associates.
- Enhanced stakeholder decision-making by developing interactive **React** dashboards with **Chart.js**, optimizing the visualization of productivity and efficiency metrics.
- Developed **50 test scripts** using **Python** and **Selenium** to evaluate web-based POS system functionalities.

Projects

StockPulse — *React, Next.js, Java, Spring Boot, MySQL, Maven*   **May 2024 – August 2024**
- Developed an engaging stock market simulation game utilizing the **Alpaca API** for real-time trading capabilities, and incorporated **OpenAI API** for real-time stock analysis, insights, and news.
- Implemented robust cybersecurity measures, including AES-based password encryption, encrypted user credentials, and secure API communication to protect sensitive data and ensure user privacy.
- Designed and developed competitive features to enable user interaction and competition within the platform.

Predictive Analysis of Oxygen Concentrator Lifespans | *Python, Keras, TensorFlow*   **August 2023 – May 2024**
- Mentored **9 students as a TA** in the Data Mine Learning Community, developing **LSTM** and **Random Forest** models to enhance failure prediction and usage patterns for **Inogen's** portable oxygen concentrators.
- Conducted comprehensive data analysis and machine learning strategies, achieving an impressive **R^2 score of 82%** for precision in predictions, demonstrating robust predictive capabilities and technical proficiency.

BluMap | *React, Next.js, Node.js, PostgreSQL, Jest, Docker*   **February 2024 – April 2024**
- Collaborated in the Software Engineering course as a team of four to develop a travel planning web app with itinerary customization, community features, and **Google Places API** integration.
- Implemented social features like following and liking, and developed an admin dashboard for managing content.
- Utilized **Docker** and **CI/CD pipelines** to ensure deployment quality, creating **150 test cases** for testing.

Technical Skills

Languages: Java, JavaScript, Python, C, C++, HTML/CSS, SQL
Frameworks: React, Next.js, Spring Boot, MySQL, MongoDB, PostgreSQL, Node.js, Express.js, Keras, TensorFlow
Developer Tools: AWS, Docker, VS Code, Git, Apache Maven, Jupyter Notebook, Chart.js, Jest, Selenium