DUNG HOANG LE

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EXPERIENCES

Full Stack Software Developer   **June 2025 – Current**
South Georgia Pecan Co. – Valdosta, GA

- Replaced **85%** of physical Control Document process with a digitalized system, which helps reduce information filling by **30%**
- Built a user-friendly front-end for **over 250 employees** using **React** and **Material-UI** library, mirroring physical paper forms to ensure a smooth transition to the digital process.
- Created a backend server with **Spring Boot** and validation rules that matches an existing factory-floor workflow production to capture user's submission for high data accuracy and audit readiness.
- Developed **Microsoft SQL Server** database to store digital form submissions, application settings, and **RBAC** resources.
- Integrated the app with a dashboard that allows management team to generate real-time trend analysis on production such as defects, customers, machines, and lines via **Power BI.**
- Optimized QC reporting and analytics which strengthen product traceability and help boost decision-making speed by **20%.**

Data Engineer   **Dec 2022 – June 2025**
South Georgia Pecan Co. – Valdosta, GA

- Developed **data visualization** tools using **Power BI** and **Excel** for production monitoring and goal tracking.
- Implemented **SQL queries** to clean up data on **Microsoft SQL Server** and pull data for daily updates.
- Performed end-to-end traceability on finished product back to the initial process input with the full ingredient usage.
- Automated and optimized data pipelines using **Python and SQL procedures**, reducing daily correction time from average of **2-3 hours down to around 20 minutes**, enabling goal tracking and same-day decision making.
- Built forecasting dashboard using cleaned historical data to predict production trends and raw material needs, improving planning accuracy and reducing overstock by **15%.**

Java Backend Engineer   **Feb 2022 – Dec 2022**
Silicon Valley Bank via BeconFire Inc and Brillio – Remote

- Designed a backend server with **microservices architecture** using **java**, **Spring Boot** following **RESTful API** guidelines.
- Utilized **Hibernate** to generate SQL queries for **MySQL** database interactions, improving development efficiency, and reducing the need of manually creating SQL queries.
- Achieved internal microservices communication with **Feign Client** for synchronous calls, and **Kafka** for event – driven workflow
- Deployed and managed the application on **AWS** utilizing various of difference services **Dynamo RDS**, **SQS**, **Secret Manager**, and **additional services**, while enforcing access control between the services via **IAM** roles and policies.
- Maintained the code using **GitLab** and set up **CI/CD** pipeline to **dev/preprod/QA** deployment on **AWS Code Deploy.**

PROJECTS

Full-Stack Web Developer   **Jun 2024 – Current**
Birdie AI founded in San Francisco, CA - birdieapp.co

- Developed an **AI nutrition chatbot** interface with **Next.js** and **OpenAI API**, helping **over 1,000 users** with their diet plans and meal prep.
- Deployed **a serverless backend** on **AWS lambda** with **API gateway** and **REST endpoints**, allowing parallel deployment between frontend and backend reducing overhead and dependency
- Engineered **JWT authentication** system for maintaining user session security
- Configured **Stripe** to automate process subscription billing after each billing cycle (e.g., monthly, annually) with options for promotion discount codes.

EDUCATION

Washington State University – Pullman, WA   **Dec 2021**
Bachelor of Science in Computer Science, Specialized in Web Development

- Relevant Courses: Parallel Computing, Linux Operating System and Computer Architecture, Software Engineering Principles, Machine Learning, Web Development.

PROFICIENCY

Languages: Java, C/C++, Python, HTML, JavaScript, CSS, Bash, SQL
Frontend: ReactJS, NextJS, Vue, Material-UI, Bootstrap, jQuery, Tailwind CSS.
Backend: Microservices, REST API, Spring Boot, JUnit, Mockito, Hibernate, Feign Client, JaCoCo, Stripe, NodeJS, Express
AWS: IAM, Dynamo, Xray, CloudWatch, Secret Manager, Parameter Store, SNS, SQS, EC2, Lambda, API Gateway, RDS
DevOps & Tools: Git, CI/CD, GitHub Actions, Postman, Kubernetes, Heroku, Vercel, Wireshark, Snyk, Docker