DUNG HOANG LE

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EXPERIENCES

Data Engineer   **Dec 2022 – Current**
South Georgia Pecan Co. – Georgia, USA
- Developed data visualization tools using **Power BI** and **Excel** for production monitoring and tracking.
- Wrote **SQL queries** to clean up data on **Microsoft SQL Server** and pull data or daily updates
- **Traced product lifecycle from initial processing to final product** output upon request.
- **Automated and optimized data cleansing pipelines**, cutting daily correction time by **40%** and significantly improving the reliability of production and inventory reports
- **Built forecasting models using cleaned historical data** to predict production trends and raw material needs, improving planning accuracy and reducing overstock by **15%.**
- **Designed and maintained real-time monitoring dashboards in Power BI**, enabling instant visibility into production flow and early detection of bottlenecks, which supported timely decision-making and process adjustments.

Java Backend Engineer   **Feb – Dec 2022**
Silicon Valley Bank via BeaconFire Inc and Brillio - Remote
- Designed and implemented microservices using **Java, Spring Boot**, and **RESTful API** principles.
- Utilized **Hibernate** for database interactions with DynamoDB and MySQL.
- Established inter-services communication using **Feign Client** and **AWS SNS**.
- Achieved **95% code coverage** through comprehensive unit testing with **JUnit and Mockito**, validated via **JaCoCo.**
- Applied different design pattern such as **Singleton**, **Factory**, **Observer**, **Builder**, **Proxy**.
- Managed **IAM** roles and **AWS services** (**DynamoDB**, **SQS**, **Secret Manager**, etc.).
- Maintained the code using **GitLab** and set up **CI/CD** pipeline to **dev/preprod/QA** deployment on **AWS Code Deploy**.

Web Developer Internship   **Jan – Dec 2021**
F5 Network – Washington, USA
- Responsible for the frontend part of the project by using **ReactJS** Framework with functional component.
- Utilized **Axios** libraries for retrieving data and send request between frontend and backend application.
- Integrated the frontend application with a terminal that runs in a **Kubernetes** cluster.
- Tested the interaction between the elements by using **TestCafe** Framework for unit testing.
- Collaborated with the team members on the project through **GitHub**.
- Responsible for the deploying process of the frontend application through **Heroku** Platform.

PROJECTS

Full-Stack Web Developer   **Jun 2024 – Current**
Birdie AI founded in San Francisco, CA
- Developed backend server using **NodeJS** with **Express**
- Deployed the backend application to **AWS Lambda** and use **AWS gateway** to achieve **REST API** communication
- Stored credential to other services such as **MongoDB, Stripe**, **OpenAI, Google OAuth** to **AWS Secret Manager**
- Engineered **JWT authentication** system for maintaining user session security
- Optimized application architecture through implementation of **global error handling protocols**.
- Worked on **CORS** for cross-site communication between frontend and backend
- Deployed **NextJS** frontend application to **Vercel** hosting platform with automated integration testing
- Established **CI/CD** pipeline using **GitHub** Actions for environment-specific deployments (development/production)
- Utilized advanced **prompt engineering** techniques to customize **AI** responses for pregnancy and postpartum care.

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.

SKILLS

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
DevOps & Tools: Git, CI/CD, GitHub Actions, Postman, Kubernetes, Heroku, Heroku, Vercel, Wireshark, Snyk