DUNG HOANG LE

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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.

EXPERIENCES

Inventory Control Specialist and Data Engineer   **Dec 2022 – Current**

  South Georgia Pecan Co. – Valdosta, GA

- Developed data visualization tools using Power BI and Excel for production monitoring and tracking.
- Executed data processing for better accuracy on daily production report.
- Diagnosed and resolved machines malfunctions to ensure operational efficiency.
- Traced product lifecycle from initial processing to final product output upon request.
- Managed and organized daily product logs for future accessibility.
- Collected and analyzed sample requests for potential customers.
- Inspected and validate incoming product from other facilities to ensure compliance with processing standard.

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 – Pullman, WA

- Collaborated with Washington State University on cybersecurity project.
- Responsible for the frontend part of the project by using ReactJS Framework with functional component.
- Utilized Axios libraries for retriving 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.

SKILLS

Languages: Java, C/C++, Python, HTML, JavaScript, CSS, Bash, SQL

Frontend: ReactJS, NextJS, Vue, Material-UI, Bootstrap, Heroku, Vercel, 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, Wireshark, Snyk