Vulin Xia

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Education

University of Waterloo Waterloo, ON **Bachelor in Computer Engineering** 2022 - Current

Skills

Programming C/C++(2 yrs), Python(4 yrs), HTML/CSS, JavaScript, Typescript, Node.js, Bash, Java

K8s, Linux, AWS, Docker, CI/CD, PyTorch, OpenCV, Pandas, MongoDB, Oracle, React, DBeaver, OracleVM, Microservices

ArgoCD, PostgreSQL, Jupyter, Ansible, Jenkins, MySQL, Git, Spring, Flutter, Socket, NumPy.

Soft Skills Interpersonal Communication, Adaptability, Time Management, Team Collaboration, Problem Solving.

Work Experience

Software Engineer Toronto, Canada

Caerulean AI

May 2023 - Aug 2023 • REACT and TypeScript were used to develop 7 frontend pages. REST API was Designed and implemented,

- **Prisma** leveraged for efficient database modifications. **Docker** Utilized to set up the local database environment. • MLOps platform implemented with backend expertise, Lambda functions created and contributing to the es-
- tablishment of a CI/CD Pipeline using EKS and ArgoCD, enhancing efficiency by 20%. • Kubeflow platform facilitated skillful coordination of code management, strategically optimizing pipeline exe-
- cutions to ensure seamless and efficient AI model training, leading to significant cost savings of up to 80%. • Python, NumPy, Pandas and more to develop 2 predictive models for testing within Kubeflow, contributing to the realization of **DevOps** objectives.

WEA Microsoft Azure Artificial Intelligence Program Univrsity of Waterloo

Waterloo, Canada

May 2023 - Aug 2023

- Certifications in Azure Fundamentals and Azure AI Fundamentals Attained, showcasing proficiency in deploying, configuring, and managing Azure resources and AI services.
- Al-powered solutions leveraging Azure services were delivered through effective collaboration across diverse teams, applying Design Thinking methodologies to creatively address complex challenges.
- AI-powered healthcare Chatbot successfully created by utilizing a comprehensive suite of Azure tools, highlighting our prowess in harnessing Azure's capabilities for impactful applications.

Projects

CI/CD PIPELINE

- End-to-End CI/CD pipeline created on AWS, Jenkins automated software delivery by integrating with GitHub Actions for code updates and employing Maven for artifact creation, followed by seamless deployment to an Ansible server.
- Docker image automated creation through Ansible playbooks within an AWS Ansible server, DockerHub was utilized to facilitate efficient containerization, and these images were further uploaded for automated deployment and management
- EKS integration streamlined Docker image retrieval from DockerHub for efficient container deployment and scaling in a **Kubernetes** environment. **Consistent deployments** are ensured by this comprehensive pipeline, elevating development efficiency.

FACIAL RECOGNITION

- Real-time image capture dynamic image display, and facial verification are encompassed by the project, enabling real-time facial detection scenarios.
- TensorFlow is utilized for model training, Data Preprocessing, and OpenCV for image processing.
- Siamese network architecture is utilized to compute the distance between input and validation images for facial verification, enabling the determination of facial similarity.
- Guaranteed secure access and data privacy by website's robust authentication functionality. The platform's advanced security measures ensure user confidence and protection.

FULL STACK VIRTUAL NOTES

- Oracle Cloud infrastructure running with CentOS operating system hosting a cutting-edge notes platform featuring meticulously crafted Full-Stack components developed using React and Typescript for optimal user experience.
- MongoDB integration enables efficient note storage, enhancing platform performance. Secure authentication **and data privacy** guaranteed with advanced measures.
- Authentication functionality ensures secure access and data privacy for users on the website. The platform's advanced security measures further enhance user confidence and protection.