Joshua Lee
Expert Senior Software Engineer, Solution Architect

SUMMARY

Senior Software Engineer with a BSc in Computer Science and over 10 years of experience specializing in Python, Django, JavaScript, React, TypeScript, and cloud platforms like AWS and Azure. Demonstrated ability in creating scalable microservice architectures and developing high-performance backend services, with a keen eye for front-end user experiences. Proficient in deploying applications using CI/CD pipelines and proficient in database management with systems such as PostgreSQL. Successfully evolved ML workflows in FinTech, eCommerce, and AI, enhancing operations and boosting performance.

TECHNICAL SKILLS

Main Technical Skills	Python (10 yr.), Django REST framework (10 yr.), JavaScript (10 yr.), React (7 yr.), TypeScript (5 yr.)
Programming Languages	JavaScript (10 yr.), Python (10 yr.), TypeScript (5 yr.)
JavaScript Frameworks	D3.js, Express, React (7 yr.)
Python Frameworks	Django REST framework (10 yr.)
JavaScript Libraries and Tools	Draft.js, Enzyme, Redux Thunk, RxJs, Styled components, Vuex
Python Libraries and Tools	python-docx, TensorFlow, Web3.py
AI & Machine Learning	TensorFlow
Databases & Management Systems / ORM	AWS DynamoDB, Microsoft SQL Server, MongoDB, MySQL, PostgreSQL, Redis
UI Frameworks, Libraries, and Browsers	D3.js, LESS, PostCSS, SASS, Storybook, Styled components
Cloud Platforms, Services & Computing	GCP
Amazon Web Services	AWS CloudWatch, AWS CodePipeline, AWS DynamoDB, AWS ECS, AWS ECS (Amazon Elastic Container Service)
Deployment, CI/CD & Administration	ArgoCD, Helm, Jenkins
Message/Queue/Task Brokers	Celery
BlockChain and Decentralized Software	Chai, Smart Contract, Web3.py

QA, Test Automation, Security	Checkmarx, Cypress, Jest, Mocha, Selenium, Xray
Logging and Monitoring	Datadog, Nagios
Virtualization, Containers and Orchestration	Docker, Kubernetes, Terraform, Terragrunt
SDK / API and Integrations	Eslint LinkedIn API, GraphQL, JWT, OAuth, Swagger
Version Control	Github Actions
Mail / Network Protocols / Data transfer	JWT
Project Management & Administration	MVP
Methodologies, Paradigms and Patterns	MVVM, MVVM-C
Other Technical Skills	husky, multipeer connectivity, Node Exporter, Prettier, Snyk

WORK EXPERIENCE

Senior Software Engineer | Solutions Architect, Abacus AI Platform

Duration: Jan 2022 – Present

Summary:

- Abacus AI Platform, an AI-assisted data science and machine learning platform enabling real-time machine and deep learning at scale for enterprise use cases
- Collaboration with machine learning engineers and research scientists to automate the creation and management of production-grade AI systems

Responsibilities: Developed high-volume enterprise services, designed a stable DB schema for high-traffic ML platform, integrated next-generation AI models, developed features for end-to-end project setup, built ML pipeline, implemented performance optimizations, developed Babelfish service for SQL Server compatibility, implemented authentication service with token-based authorization, integrated and deployed services using AWS, and led setup of security vulnerability detection and monitoring tools.

Technologies: React, TypeScript, Redux, Sass, Cypress, Jest, Enzyme, Material UI, WebSocket, Next.js, Python (3.9), Django (3.2), AWS (EC2, EKS, Elastic Beanstalk, Secrets Manager, CodePipeline), Helm v3.7, Terraform v1.1, Terragrunt v0.36, Argo CD v2.5, Checkmarx v9.4, Snyk v1.100, Datadog v7.31, Nagios Core v4.4, PostgreSQL 13, Babelfish for Aurora PostgreSQL 1.2

Senior Software Engineer – Tech Lead, BlackOcean

Duration: Aug 2016 – Dec 2021

Summary:

- BlackOcean, a cryptocurrency trading system and infrastructure service provider in the crypto industry

- Development of company-owned UI framework 'Yoga' and scalable RESTful APIs for real-time cryptocurrency trading system

Responsibilities: Built asynchronous handling framework, established coding standards, scalable RESTful APIs, integrated Ethereum blockchain interaction, and ensured high-performance application design.

Technologies: React v16, TypeScript, Styled Components v5.3, Storybook v6.5, Cypress v4, Jest v27, RxJS v7, Redux-Observable v1.2, ESLint v8, Prettier v2.8, Husky v7, JWT, Python 3.9, Django 3.2, Django REST framework, Web3.py (version 5.0), Redis, AWS Elastic Beanstalk, Ethereum, Smart Contracts

Full-stack Developer, Joseflegal Automatic Documentation System

Duration: Oct 2009 – Jul 2016

Summary: Joseflegal automatic documentation system empowering legal professionals to automate tasks and streamline their work with smart forms and documents.

Responsibilities: Created flowcharts and editor for rich text editing, developed interface for interacting with legal bots, implemented API development with file upload function for Microsoft Word document manipulation, established CI/CD pipeline and managed infrastructure on GCP.

Technologies: React v0.14, Draft.js v0.9, Vue, Vuex, SASS, D3, Dagre, Cypress, Jest, Python 3.6, Django 1.11, Vue.js v1.0, D3.js v3, Dagre v0.7, python-docx v0.8, GitHub Actions, Docker v1.12, Google Cloud Platform (GCP)

EDUCATION

- **Bachelor of Science**
- Computer Science, University of Kansas
- Apr 2005 – Sep 2009