

# 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

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

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

