

# SOUL LEE

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## Senior Software Engineer

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### JavaScript | Java | Python

Over 10 years successfully leading the development of dynamic web and mobile solutions. Expertise in full-stack technologies and modern cloud platforms. Passionate about delivering innovative products that exceed business goals through tight collaboration, quick iteration and commitment to quality code.

Seeking a challenging role to apply full skills on impactful projects.

## WORK EXPERIENCE

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**Walmart - Remote**

01/2023 – Present

### Senior Software Engineer

- Contributed to the **Generative AI-Powered Search** project using **React**, **React Native**, **Node.js**, **Python**, and **Azure OpenAI Service**, which enhanced the digital shopping experience.
- Contributed to the **My Assistant** mobile application using **Swift** (iOS), **Kotlin** (Android), **Java**, **Spring Boot**, and integrating **large language model**, which deployed to over **50,000** Walmart associates.
- Developed and maintained the Walmart Creator Platform using **React**, **TypeScript**, **Tailwind CSS**, **Node.js**, **Express.js**, and **MongoDB**, enhancing online sales through affiliate links.
- Contributed to the frontend development leveraging **JavaScript**, **TypeScript**, **React**, **Angular**, **Vue**, **Sass / LESS**, and **Webpack**, leading to the seamless user experience.
- Leveraged **Electrode** to optimize **React** and **Node.js** applications for high performance and scalability in Walmart's ecosystem.
- Implemented advanced frontend performance optimization strategies, including **code splitting** and **lazy loading**, to enhance load times and user experience in large-scale web applications.
- Designed and integrated **RESTful API**, **GraphQL API**, and **FastAPI** using **Node.js**, **Java**, and **Python**, with **MongoDB**, **MySQL**, **PostgreSQL**, and **SQL Server** databases.
- Implemented secure API authentication and authorization strategies using **Auth0**, **OAuth 2.0**, **OpenID Connect (OIDC)**, and **JWT**, bolstering data protection and compliance.
- Implemented **gRPC** for efficient service-to-service communication, enhanced back-end performance boosting **microservice architecture** and **CDNs**, and optimizing database and API performance.
- Implemented **caching mechanisms** to optimize performance and minimize database queries, resulting in improved application speed and responsiveness.
- Implemented containerization strategies using **Docker** and **Kubernetes** for deployment, improving scalability and reliability of applications.
- Deployed and scaled web applications using **AWS** (S3, ALB, KMS, EC2, Lambda), **Azure**, **GCP** infrastructure, managing deployment pipelines to maintain a stable production environment.
- Mentored and coached 5 junior engineers on technical and leadership skills, resulting in a **40%** increase in team productivity and 2 promotions within 6 months under **Agile** environment.

**Chewy - Plantation, FL**

07/2020 – 12/2022

### Senior Software Engineer

- Contributed to the **Chewy Personalized Nutrition Advisor** using **React**, **React Native**, **Python**, **Flask**, **TensorFlow**, and **PostgreSQL**, which boosted sales of pet food by 25%.

- Contributed to the **Chewy Community Forums** using **Angular**, **Material UI**, **Java**, **Spring Boot**, and **MySQL**, which attracted 1 million active users.
- Developed frontend interfaces leveraging **JavaScript**, **React**, **Angular**, **Vue.js**, **WordPress**, and **jQuery**, leading to the seamless user experience.
- Led a frontend team to deliver optimized and well-structured code for internal UI development, primarily utilizing **React**, **Zustand**, **Typescript**, **Java** and **MySQL**.
- Optimized codebase using advanced React patterns and **lazy loading** techniques, reducing code complexity by **80%** and initial loading times by **70%**, improving user experience for over 1 million daily active users.
- Designed and integrated **RESTful API**, **GraphQL API**, and **FastAPI** using **Node.js**, **Java**, **Python**, and **C#** with **MongoDB**, **MySQL**, **PostgreSQL**, and **SQL Server** databases.
- Established a new **Apollo GraphQL** server for smooth data flow, reducing API response times by **60%** and enabling real-time updates for **500,000** concurrent users.
- Enhanced software reliability by implementing an automated testing framework with **Jest** and **Cypress**, effectively reducing production bugs by **50%**.
- Developed a feature flagging system and managed the software development lifecycle for a real-time analytics project, achieving controlled feature releases through the **CI/CD** process using **Azure DevOps**, which improved deployment efficiency.

**Insight Global** – *Atlanta, GA*

11/2017 – 06/2020

#### **Full Stack Engineer**

- Led the full-stack development of the Lifetouch mobile app using **React Native**, **Python**, **PostgreSQL**, **FastAPI**, and **Tailwind CSS**, integrated AI-powered recommendation features with **TensorFlow.js**, enhancing user engagement and personalization. (Home Depot)
- Diagnosed and resolved system discrepancies efficiently, ensuring seamless operations by leveraging modern technologies such as **MongoDB** and **Node.js** for back-end support. (BlueScope Steel)
- Contributed to the frontend development of a collaboration app using **Electron**, **React**, **Redux-Saga**, **ES6+**, **WebRTC**, and **WebSockets**, implementing features like real-time chat, video conferencing, screencasting, and a team calendar. (Shyftmoving)

**Amazon** – *Seattle, WA*

01/2016 – 10/2017

#### **Full Stack Developer**

- Modernized and enhanced the **Amazon Order Management System**, improving order processing, inventory tracking, and customer communications.
- Created dynamic and responsive user interfaces using **TypeScript**, **Angular**, and **Vue.js** enhancing user experience for internal stakeholders with real-time data updates and optimized workflows.
- Engineered **RESTful** and **GraphQL APIs** using **Node.js** and **Java**, integrating multiple services for order processing, inventory management, and shipment tracking.
- Architected and optimized database schemas using **PostgreSQL** for relational data and **DynamoDB** for high-speed, low-latency operations, ensuring data integrity and performance.
- Designed a microservices-based architecture with secure communication channels, implementing **CI/CD** pipelines for automated testing, deployment, and scaling on **AWS**.

## **EDUCATION**

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**National University of Singapore** - *Singapore*

Bachelor's Degree, Mathematics and Computer – 2010, 2014

**The University of Georgia** – *Athens, GA*

Bachelor's Degree, Computer Software Engineering – 2014 - 2018

## PROFESSIONAL SKILLS

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- **JS Frameworks:** JavaScript/ES6+/TypeScript, React/React Native, Next.js, Angular, Vue
- **State Management Library:** Redux, Context API, Zustand, MobX, Rx.js, Jotai, Recoil
- **UI Library:** Tailwind CSS, MUI, Styled Component, SCSS, Bootstrap, WordPress, Shopify
- **Data Visualization:** Chart.js, MapBox(Google Map API), D3.js, Three.js, Plotly, Eloquent
- **Backend Framework:** Node/Express, Java/Spring Boot/Kotlin, Python/Django/FastAPI
- **API Design:** Apollo GraphQL/Hasura, Rest APIs, WebSocket
- **Cloud Services:** AWS (EC2, S3, Elastic Search, etc.), Azure, GCP
- **DevOps:** Unit Testing (Jest, Enzyme, RTL and Vitest), Cypress, CI/CD (Jenkins, GitHub actions)
- **ETC:** Apache Kafka, Grafana, Splunk, Datadog, Storybook, Git, Docker, K8s(Kubernetes)