

Summary

- Senior Software Engineer with over 10 years of experience in software development, specializing in designing and implementing scalable and resilient systems. Proficient in cloud services, microservices architecture, and DevOps practices, with a strong focus on driving innovation and enhancing operational efficiency.
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Work Experience

TiMaven

BATON ROUGE, LA

Senior Software Engineer

May 2019 - Present

- Enhanced system scalability and resilience using Kubernetes, implementing auto-scaling, load balancing, and self-healing mechanisms to optimize resource utilization and ensure system availability.
- Orchestrated AWS services including Lambda for serverless architecture, CloudWatch for advanced monitoring, and SNS for real-time notifications, employing infrastructure as code (IaC) principles for efficient cloud resource management.
- Implemented sophisticated log aggregation and filtering strategies with AWS CloudWatch, facilitating comprehensive operational insights and proactive troubleshooting through centralized logging.
- Developed and executed a secure, scalable multi-tenant architecture, significantly expanding application versatility and customer reach by employing isolated databases and dynamic resource allocation.
- Designed and deployed a suite of microservices for time management, human resource, project and contract management, and decision-support systems, leveraging domain-driven design for modular and maintainable system architecture.
- Spearheaded the development and launch of a cross-platform mobile application for real estate, integrating intuitive property search and expert inspection functionalities with backend services for real-time data processing.

Gordon A. Cain Center

BATON ROUGE, LA

Research Assistant - Full-Stack Web Development

Sep 2017 - May 2019

- Led the development of a sophisticated vending machine control system using Android/Java, integrating features that resulted in significant revenue growth.
- Established a continuous integration and deployment pipeline using Gradle for automated builds, improving software quality and team productivity.
- Designed and implemented a remote control and maintenance system for vending machines, significantly reducing operational costs and enhancing service efficiency.

Beijing Brain Cell Software Co., LTD

BEIJING, CHINA

Senior Software Engineer - Vending Machine Control System Development

Feb 2016 - July 2017

- Developed a sophisticated vending machine control system using Android/Java, integrating features that resulted in significant revenue growth.
- Established a continuous integration and deployment pipeline using Gradle for automated builds, improving software quality and team productivity.
- Designed and implemented a remote control and maintenance system for vending machines, significantly reducing operational costs and enhancing service efficiency.

Fujitsu

TOKYO, JAPAN

Software Engineer - Android App Development

Apr 2014 - Feb 2016

- Innovated in the development of Android applications, including complex fingerprint processing applications, optimizing for performance and device compatibility.
- Utilized Java Native Interface (JNI) for performance-critical components, enhancing application responsiveness and user experience.

Beijing Brain Cell Software Co., LTD

BEIJING, CHINA

Software Engineer - Android App Development

July 2012 - Apr 2014

- Developed user interface components for USB operation, including a complex tree view for navigating USB directories, improving user interaction and accessibility.
 - Created applications for a movie ticket vending machine and a daily news display, emphasizing modular design and effective data integration.
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Education

Louisiana State University, Baton Rouge, LA
M.S. Computer Science

GPA 3.8/4.00
Aug 2017 – May 2019

Beijing Forestry University, Beijing, China
B.S. Wood Science and Engineering

Aug 2008 – July 2012

Skills

- **Programming Languages:** Proficient in Java, Python, and C. Experienced with JavaScript, including JSP, HTML, and CSS.
- **Software Development:** Extensive experience in Android app development, web development (using Spring, Hibernate), and embedded system design.
- **System Design:** Skilled in designing scalable, resilient systems using Kubernetes, creating multi-tenant architectures, and implementing microservices with a focus on domain-driven design.
- **Cloud Platforms:** Proficient in deploying and managing applications on AWS, Azure, and Aliyun, with hands-on experience in services such as Lambda, CloudWatch, and SNS for serverless computing and real-time monitoring.
- **DevOps Tools:** Experienced in Docker for containerization, Gradle for build automation, and Git for version control, with a strong emphasis on CI/CD pipelines and Infrastructure as Code (IaC) practices.
- **Database Management:** Proficient in SQL and PostgreSQL. Familiar with database design, optimization, and integration with applications for robust data management solutions.
- **Data Analysis and Machine Learning:** Basic knowledge of machine learning and deep learning concepts, with experience in applying Python libraries for data analysis and model development.
- **Others:** Comfortable with Linux/Unix Shell scripting, with a foundation in machine learning, deep learning, and embedded development for comprehensive software solution development.