Simon Xie

Software Developer (Data & AI)

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📍 Melbourne VIC Australia

🪪 AU Permanent Resident

🏠 EDUCATION

Bachelor's degree

Major: Mechanical-Electrical Control & Detection

Beijing University of Aeronautics and Astronautics

📖 QUALIFICATION & CERTIFICATES

AWS - AWS Certified Solutions Architect - Associate

Udemy - PyTorch for Deep Learning Bootcamp

Coursera - Generative AI with Large Language Models

Coursera - Functional Program Design in Scala

Coursera - Functional Programming Principles in Scala

Coursera - Big Data Analysis with scala and Spark

👤 SUMMARY

- Five years of experience in the FinTech sector with knowledge in finance and investment.
- Skilled in integrating AI technologies into applications, including data tagging, model training, fine-tuning, RAG, and function-calling.
- Proficient in designing and implementing scalable, event-driven microservices using AWS technologies.
- Experienced in building real-time big data pipelines with Scala, Spark, and AWS.
- Expertise in programming with Scala, Node.js, Python, and React, and proficient with AWS cloud services.
- Team player with a proactive attitude and quick adaptability to new skills.

👤 RELEVANT PROFESSIONAL EXPERIENCE

BGL Corporate Solutions Pty Ltd
Software Developer | Nov 2019 - Present | Melbourne VIC

- Developed AI-driven services for document processing, converting unstructured data into structured formats.
- Designed and maintained serverless AI prediction and training functions using Python and AWS Lambda.
- Created AI assistant solutions integrated with business applications.
- Built and managed real-time and batch data processing pipelines for big data aggregation.
- Developed and maintained a RESTful API for authentication, authorization, task scheduling, AI model management, and AWS integrations using Node.js and TypeScript.
- Managed data privacy and redaction services.
- Utilized Scala, Spring Boot, Jackson, AKKA HTTP, io.circe.json, Spark, and functional programming in an agile SCRUM environment, ensuring quality with unit and integration testing, and CI/CD automation with Jenkins.
- Employed AWS services including SNS, SQS, Lambda, S3, SSM, SES, EventBridge, SageMaker, Aurora, Athena, Glue, EMR, Kinesis, Textract, Elasticsearch, Redis, and DynamoDB.
- Worked with AI technologies including Transformer models, LLM fine-tuning, OpenAI function-calling, and AI model tagging and training.
- Collaborated with product managers to refine business requirements and processes and discussed testing strategies with business analysts.
- Partnered with DevOps to address AWS infrastructure and deployment challenges.

FreeLancer
FullStack Developer | Jan 2018 - Oct 2019 | Perth WA

- Developed and deployed full-stack applications with the MERN stack, overseeing projects from start to finish.
- Designed and implemented scalable RESTful APIs, emphasizing best practices and message broker patterns.
- Built robust APIs using Node.js, leveraging event-driven architecture, async programming, streaming, templating, middleware, and message queuing.
- Engineered back-end services with Node.js, Express, MongoDB, Mongoose, OAuth, JWT, and API keys.
- Developed React and React Native apps, including Redux state management.
- Conducted unit and integration testing with Jest and Supertest to ensure high code quality.
- Utilized Docker and Jenkins for CI/CD to optimize development workflows and automate deployments.

Computer Practitioners Pty ltd
IT Consultant | Nov 2015 - Dec 2017 | Perth WA

💼 PROJECTS

SmartDocs:
- web-api: Delivered RESTFULl API services for internal and external clients, handling user authentication and authorization, PDF OCR scheduling, AI model labeling and training, and integration with AWS services. Utilized Node.js, TypeScript.
- ai-api: Developed AI prediction services for multiple document types, including rental statements, invoices, ASIC forms, and signature detection, etc, with AWS integrations. Leveraged Scala, Spring Boot, functional programming.
- transformer: Engineered AI services to convert bank statements from unstructured data into structured formats, using Scala, AKKA HTTP, Transformer model(BERT).
- privacy-redaction: Managed privacy redaction services for supported document types within SmartDocs, employing Scala, Spring Boot, AWS.
- prediction-training: Designed and maintained Lambda functions for AI prediction and training, using Python and AWS.

AI Assistant:
- ai-studio: Provided AI assistant services using OpenAI API and function-calling for customized AI solutions, integrating with internal business applications. Utilized Scala, Spring Boot, AWS.

Big Data Pipeline:
- BigData-api: Delivered real-time incremental data aggregation and summary services using Scala, Spring Boot, AWS Aurora, Kinesis, DynamoDB, K8s, and Elasticsearch.
- spark: Developed initial and periodic full sync data aggregation and summary services leveraging Scala, Spark, and AWS services.