Jessica Lee

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https://github.com/Jclee967/

SUMMARY OF QUALIFICATIONS

- Self-motivated **software engineer** with 4+ years of experience; holder of a Computer Science Bachelor and an Ontario Post-graduate Certificate in Applied Artificial Intelligence Solutions Development
- Specialized in building large-scale, high availability, secure solutions
- Knowledgeable of Java, Spring Framework, J2EE, REST API, Microservices, AWS, Vue and React
- Experience in developing web applications including frontend and backend with agile methodology
- Strong analytical skills with proven proficiency in technical troubleshooting and problem-solving

KEY SKILLS

Languages:	Java, JavaScript, HTML, CSS, Python, SQL
Frameworks/Tools:	Spring Boot, J2EE, Vue.js, React.js, Ext.js, Node.js, Bootstrap, TailwindCSS, JMS, JDBC, JPA, Hibernate, REST API, SOAP, JUnit, Mockito, Selenium, Maven, Jenkins (CI/CD), JIRA, Git, TortoiseSVN
Platform/Database:	AWS, Azure, Oracle RDBMS, MySQL, MongoDB, Sybase, Red Hat OpenShift, Docker, Kubernetes, Solace PubSub, Oracle WebLogic, Linux

PROFESSIONAL EXPERIENCE

Full Stack Developer   Jun 2023 – Aug 2023

Gliese.AI, Toronto (Co-op)

- Designed and developed AI dental applications using a wide variety of frameworks and tools including Java, Spring Boot, Python, OpenAI, Docker, AWS Cloud9, AWS EC2
- Built responsive and interactive web user interface using React.js and integrated with ChatBot
- Designed and applied database schema of relational and NoSQL databases such as MySQL and MongoDB
- Collaborated with data scientists to utilize cutting-edge technologies like NLP and LLM

Software Engineer   Feb 2022 – Jul 2022

Orient Overseas Container Line Ltd., Hong Kong

- Designed and implemented containerized RESTful APIs utilizing Spring Boot, Hibernate ORM, Solace PubSub, MySQL, Git, Swagger, Docker and Kubernetes
- Developed and maintained full stack cloud-based web application in microservice architecture with HTML5, CSS, Vue.js, Node.js, Express.js, and Oracle RDBMS for daily operations across 100+ countries
- Reviewed system architecture which reduced 80% response time on weekly peak loads
- Integrated unit tests to CI/CD pipeline with JUnit and Mockito to achieve 100% coverage
- Conducted code review, troubleshooting, performance tuning with SonarQube to deliver high-quality code

Programmer   Jun 2018 – Jan 2022

Hospital Authority, Hong Kong

- Enhanced, optimized and developed the local largest healthcare system utilizing J2EE, Hibernate, Servlet, HTML5, CSS, JavaScript, Ext.js, Sybase DB, Maven and Jenkins for facilitating the workflow in 43 public hospitals
- Designed, documented and developed RESTful APIs by Spring Boot to support the backend of mobile app which receives 1M+ downloads on the Play Store
- Implemented authentication and tested for APIs using OAuth and Postman
- Reduced 70% time on testing by implementing Selenium testing automation with cucumber
- Collaborated with Department of Health and provided urgent enhancement on RESTful / SOAP APIs with Java Web Services to meet tight schedules during COVID-19
- Created web-based reports on OpenShift for statistical purposes

CERTIFICATION

Amazon web service   Oct 2023 – Oct 2026
AWS Certified Developer – Associate

EDUCATION

Applied A.I. Solutions Development Program (Postgraduate)   Sep 2022 – Aug 2023
George Brown College, Toronto ON   *GPA: 3.89/4.00*

Focus: Software System Design, Web Development, Machine Learning, Big Data Analytics, Algorithms & Data Structures, Database Management, Supervised Learning, Agile Methodology, AI Ethics

Academic Projects:
- Designed web application that allows real-time analysis of user's facial expression through the camera using HTML5, CSS, JavaScript, OpenCV, Docker and NGINX with SSL Certificate installation
- Built web application using Python, Flask, AWS EC2 and AWS Cloud9
- Analyzed large datasets by ETL process, utilizing Hive, MongoDB, MSSQL, PySpark, DataBricks, SSIS, Tableau, Azure, Power BI
- Built AI Projects to train, fine-tune, evaluate, test and apply different machine learning models to different application
    - Logistic Regression model to handle mask detection
    - Stochastic Gradient Descent and Random Forest algorithm to conduct correlation analysis
    - Bidirectional LSTM model to perform sentiment analysis
    - State-of-the-art CNN model, VGG16, to handle abnormal X-ray image classification
    - Yolo v8 to perform drowsiness detection based on facial expression

Bachelor of Science (Hons.) in Computer Science   Sep 2014 – Jun 2018
Hong Kong Baptist University, Hong Kong