# Jayasurya Pazhani

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## Professional Summary

Passionate Software Engineer with over 3 years of hands-on experience in full-stack and frontend development, specializing in Java, Python, React.js, and Spring Boot. Strong grasp of OOP principles and a solid foundation in data structures and algorithms. Proficient in building scalable systems, working with RESTful APIs, and managing relational (MySQL, PostgreSQL) and NoSQL (MongoDB) databases. Known for writing clean, efficient code and collaborating effectively with cross-functional teams. Holds a Master's in Software Engineering from Concordia University.

## Technical Skills

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| **Programming** | Java, Python, SQL, JavaScript, Typescript, C, C++ |
| **Backend Frameworks** | Spring Boot, Play, Django, Django Rest Framework, Apache Kafka |
| **Frontend Frameworks** | Angular, React, Bootstrap, PrimeNG |
| **Data formats & Markup** | HTML, CSS, JSON, XML |
| **Database** | MySQL, Oracle Database, SQLite, DB2, H2B, Neo4J, PostgreSQL, MongoDB |
| **DevOps & CI/CD** | Jenkins, Maven, Gradle, Git, Docker, Kubernetes, Heroku |
| **Cloud Platforms** | Google Cloud Platform (GCP), AWS |
| **Testing & QA Tools** | JUnit, Mockito, SonarQube, SonarLint, Postman, Jasmine, JaCoCo, ReadyAPI, JMeter |
| **Security, Monitoring & Tools** | 42Crunch, FOSSA, Cycode, Dynatrace, Wireshark, JIRA, Alteryx |
| **Scripting & Automation** | Shell scripting, Cron Jobs, Log Monitoring. |
| **Competencies** | Object-oriented programming, Data Structures and Algorithms, REST APIs, Agile, Scrum, Design patterns, Microservices, TDD, Quality Assurance |

## Work History

### Junior Front End Web Engineer – Internship
Jul 2024 - Aug 2024

Lump Financial Services Ltd - Montreal, QC
- Collaborated with the Founder and backend team in regular meetings to discuss product direction, technical solutions, and frontend feature plans.
- Developed responsive, accessible user interfaces using React, TypeScript, HTML5, and CSS3, reducing frontend bugs by 50%.
- Built secure login and user dashboard components integrated via REST APIs, enhancing onboarding and account visibility.
- Recommended and implemented modular frontend architecture, increasing maintainability and performance by 25%.
- Delivered multiple MVP iterations, improving development speed and feedback integration by 30%.

### Programmer Analyst Trainee – Full Stack Developer
Jan 2023 - Mar 2024

Cognizant Technology Solutions – Chennai, India
- Developed scalable full-stack features using Java, Spring Boot, React, Angular, and MySQL, improving data flow by 30%.
- Integrated RESTful APIs with SAP systems and frontend modules, enhancing platform interoperability and speed.
- Wrote unit tests using JUnit and Mockito, improving code quality and reducing production defects by 35%.
- Followed Agile development workflows and used JIRA for sprint planning, task tracking, and collaboration.
- Improved CI/CD efficiency by 40% using Git, Jenkins, and Gradle across development and testing environments.

### Web Developer – Internship
Jun 2022 - Oct 2022

SpaceZee – Chennai, India
- Created responsive web pages from Figma mock-ups using HTML5, CSS3, JavaScript, and Bootstrap, cutting delivery time by 30%.
- Developed backend modules with PHP and connected forms to a MySQL database for dynamic content handling.
- Applied frontend optimization and SEO techniques, increasing load speed and user engagement by 25%.
- Conducted usability testing and improved accessibility, resulting in a smoother cross-device experience.
- Used Git and JIRA for version control and project management, ensuring organized development cycles.

### Programmer Trainee – Systems & Operations Engineer
May 2019 - Jun 2020

Cognizant Technology Solutions – Chennai, India
- Supported mainframe job operations using Shell scripting, SQL, and Putty, maintaining 99.9% system uptime.
- Automated routine tasks using Cron Jobs, reducing manual overhead by 25%.
- Managed support incidents via JIRA, reducing response time by 20% and ensuring SLA compliance.
- Generated daily performance and job status reports to assist team leads in monitoring system health.
- Developed internal scripts and tools using Java and PHP, streamlining backend workflows.

## Projects

### Local AI Training – Offline Q&A System | Python, scikit-learn, TF-IDF, SVM, JSON
Dec 2024 – Jan 2025
- Designed an offline Q&A assistant that indexes user-provided documents and matches queries to answers with 85% accuracy.
- Built a modular data pipeline for ingesting files and retraining models without requiring internet or cloud services.
- Focused on performance and usability for secure, local-only deployments — like enterprise data search tools.

### Account Insights Dashboard | React.js, REST APIs, HTML, CSS, JavaScript, Git
Jul 2024 – Dec 2024
- Built a user-facing dashboard during internship, enabling users to monitor their account data and activity.
- Integrated REST APIs for real-time data retrieval and dynamic rendering of user insights.
- Used React Router, reusable UI components, and hooks for structured and scalable frontend code.
- Collaborated using Agile workflows, Git, and JIRA in a real product development environment.

### E-Commerce Frontend Application | React.js, JavaScript, HTML, CSS
Aug 2024 – Sep 2024
- Built a multi-page storefront UI with product listings, cart logic, and checkout flow.
- Implemented navigation via React Router and controlled UI state using React hooks.
- Designed modular layouts and styled components to support reuse and future scalability.

### Monthly Expense Calculator | React.js, JavaScript, HTML, CSS
Jul 2024
- Developed a dynamic budgeting tool that tracks user expenses with categorized filtering and real-time updates.
- Managed interactive state with React hooks and designed a responsive, mobile-friendly UI.
- Applied data-driven UI techniques for intuitive personal finance visualization.

### Warzone – Turn-Based Strategy Game (Java) | Java, OOP, Data Structures & Algorithms
Jan 2024 – Apr 2024
- Designed a command-line strategy game with multiple phases: map building, territory assignment, player turns, and scoring.
- Applied object-oriented design and custom data structures for territory control and phase transitions.
- Reinforced core Java logic and architectural design — like business rules in backend systems.

## Education

### Master of Software Engineering
Jan 2024 – Jun 2025

Concordia University, Montreal, QC, Canada
Key Courses: Software Design Methodologies, Distributed System Design, Advanced Programming Practices, Applied Artificial Intelligence, Software Refactoring.

### Master of Computer Application
Aug 2020 – May 2022

SRM University, Chennai, India
Key Courses: Programming using Java, Advanced Web Application Development, Python Programming, Object Oriented Analysis and Design.

### Bachelor of Science – Computer Science
Aug 2016 – Apr 2019

Sri Krishna College of Technology, Anna University, Coimbatore, TN, India
Key Courses: Data Structures and Algorithms, Database Management Systems, Software Engineering, Computer Networks. Computer Architecture.