

DORATHI PARANJOTHI

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Professional Summary

- Over 7 years of experience in software development, working on projects in telecom, insurance, health care, and e-commerce industries.
- Expertise includes analyzing, designing, architecting, developing, and integrating software using object-oriented programming.
- Hands-on experience in creating API proxies and implementing OAuth2.0 and JWT security using JavaScript and Java in Apigee Edge.
- Worked with the Planisware project portfolio management in roles of configuration and analysis.
- Skilled in developing customized policies and frameworks for logging and error handling in API gateways. Troubleshoot and monitor API proxies using Apigee Trace Tool and CloudWatch, support the testing team in fixing defects.
- Knowledgeable about CI/CD methodologies and integrating cloud services using an API gateway and have experience developing backend AWS Lambda functions, testing and monitoring APIs in the cloud, and following Test-Driven Development (TDD) approach.
- Work in an Agile environment, developing, testing, deploying, and documenting APIs within sprint cycles and collaborate with onsite Scrum teams and possess proficiency in front-end technologies like HTML, CSS, Bootstrap, JavaScript, AngularJS, Angular, TypeScript, ReactJS, and jQuery.
- Well-versed in designing and developing web-based enterprise applications using Core Java, Servlets, JSP, JPA, Hibernate, XML, JSON, JDBC, REST and SOAP web services, Spring Boot, Python, Django, MySQL, and MongoDB.
- Extensive experience with Agile methodologies like SCRUM and Pair Programming and familiar with Laboratory Information Systems (LIS) and Risk Factor calculation in Insurance Underwriting Processes.
- Certified Full Stack Developer and constantly strive to learn and adapt to new technologies and am adaptable, possess strong relational skills, and am results-oriented, responsible, dedicated, and enthusiastic about keeping up with emerging technologies.

Technical Skills

- **Programming Languages:** Java 11, J2EE, C++, C#, SQL, and Python 3.7.3
- **Platform:** Windows, iOS and Linux
- **Version Control:** GitHub, GitLab and Bitbucket
- **API Management Tool:** Apigee
- **Web technologies:** HTML5, CSS3, JavaScript, JSP, Servlets, Jakarta Struts, JDK, JSON, XML, AngularJS, Angular 13, Rxjs, NgRx, Redux, Bootstrap 5.1.3, ReactJS 18.0.2, Node.js 16.14.2, Express.js, TypeScript 4.6.2, Visual Basic 6.0, Apache Kafka, Django 2.2, Spring MVC, Java Spring Boot, OAuth2, JWT, AWS Lambda, AWS CDK, ECS, DynamoDB, and Docker
- **Databases:** MySQL 8.0, MongoDB 5.0, MS Access, and AWS Cloud
- **ORM Frameworks:** JPA Hibernate
- **Web Services:** SOAP, REST API, and Micro Services
- **Web Servers:** Apache Tomcat, and XAMPP
- **IDEs:** Eclipse, IntelliJ, PyCharm, and VS Code
- **DevOps Tool:** Rally, UML, Confluence, JIRA, and Kanban
- **Project Portfolio Management Tool:** Planisware
- **Tools:** Postman, Logz.io, CloudWatch, Swagger, JUnit, Splunk, Jasmine & Karma, and Chrome Developer Tools

Education

- **Master of Philosophy in Computer Science** (Jul 2008 - Aug 2009)
PRIST University, Thanjavur, Tamil Nadu, India
- **Master of Computer Applications** (Jul 2004 - Jun 2007)

Alagappa University, Karaikudi, Tamil Nadu, India

- **Bachelor of Computer Science** (Jul 2001 - May 2004)
Madurai Kamaraj University, Madurai, Tamil Nadu, India

Professional Experience

- Worked as a **Software Developer** in Patch and Sparks, Texas, United States
(Aug 2023 – Nov 2023)
- Worked as a **APIs and Integration Engineer** in Dish Network, Colorado, United States
(Feb 2023 – May 2023)
- Worked as a **Full Stack Developer** in Fiable Consulting Inc., New Jersey, United States
(Apr 2022 - Oct 2022)
- Worked as a **Full Stack Developer** in Real InfoSoft Solutions, Chennai, Tamil Nadu, India
(Feb 2019 – Nov 2021)
- Worked as a **Senior Software Engineer** in ILogix Innovative Solutions, Chennai, Tamil Nadu, India
(Nov 2014 - Dec 2015)
- Worked as a **Software Engineer** in ILogix Innovative Solutions, Chennai, Tamil Nadu, India
(Oct 2011 - Oct 2014)

Certification

- **Done Full Stack Developer Certification** and scored 86% marks (May 2022 – July 2022)
- **Technologies:** Angular 13, TypeScript 4.6.2, ReactJS 18.2.0, JavaScript, Node.js, HTML5, Bootstrap, CSS3, Java Spring Boot, REST API, and JPA Hibernate
- **Databases:** MySQL, MongoDB, and AWS Cloud
- **Tools:** Postman, Chrome Developer Tools, Jasmine and Karma

Project Summary

Project: Integration of Configuration & Code Analysis for DBSystel and Lufthansa Technik (Aug 2023 – Nov 2023)

Organization: Patch and Sparks, Texas, United States

Role: Software Developer

Technologies: Planisware, JavaScript, Node.js, VS Code, Bitbucket, UML, Confluence, Jira, and Kanban

- Designed a switch within "To be sent to Oder Data Processing (ADV)" exclusively for users with project write access.
- Authored the analysis documentation in Confluence integrated labels and tasks with Jira.
- Configured settings within Planisware, exporting DPM files using the Planisware System Console.
- Established a new branch specific to user story development and managed DPM file commits in Bitbucket.
- Enriched user stories with relevant DPM filenames in the deployment section, adhering to Jira guidelines and linking associated Confluence documents.
- Addressed timeout issues Lufthansa Technik faced during resource additions by analyzing code differences between Lufthansa and Planisware scripts.
- Documented findings in Confluence, integrating actionable tasks in Jira.
- Utilized the JavaScript Evaluator for code extraction, used Node.js for performing in-depth comparisons in VS Code.
- Used UML for creating Activity Diagrams to represent the flow of control in a system, showing activities, decisions, and the flow of data between them.
- Ensured comprehensive project tracking by completing all tasks in Jira and interlinking with Confluence.

Project: Mobile Network Operator (MNO) API Management Gateway – Dish Network, AT&T, and T-Mobile
(Feb 2023 – May 2023)

Organization: Dish Network, Colorado, United States

Role: APIs and Integration Engineer

Technologies: Apigee, JavaScript, Node.js, Java Spring Boot, Build Tool Maven, JPA Hibernate, JUnit, Apache Kafka, AWS Lambda, AWS CDK, ECS, DynamoDB, Docker, Angular 13.0, Rxjs, NgRx, IntelliJ, VS code, OAuth2, JWT, Postman, Swagger Editor, Logz.io, CloudWatch, Micro Services, REST API, UML and Rally
Wholesale APIs (Apigee and Lambda):

- Developed an API for managing eSIM operations on the TMO network, which authenticates consumers using OAuth2.
- Developed an API for validating SIM availability and authenticating consumers using OAuth2.
- Registered the App by selecting API products and received an App Key and Secret for future API calls. OAuth2 was used for authentication, obtaining the access token through an OAuth2 proxy.
- Implemented preflow policies such as JS-Logger for logging, Flow Callout for security, KVM for getting endpoints, JS-Validate Header for header validation, Raise Fault for error capture, and Assign Message for header settings.
- Created conditional flow Request policies including OASValidation for specification validation, Assign Message for removing Authorization, JS-Validation for request validation, Raise Fault for error capture, and Assign Message for payload settings.
- Implemented conditional flow Response policies like JS-Validate for creating responses and Assign Message for response settings.
- Set up error response files, performed Error Mapping, and connected the backend Lambda function by providing the Target endpoint. Used Logz.io to track request hits from Apigee.
- Created and configured a Lambda Function, including versioning and Alias setup. Connected a Java Main class to AWS Lambda and provided a Pop token for testing.
- Created a Target Group and Endpoint in EC2 to communicate with Apigee and attached the endpoint to the Lambda Function.
- In Gitlab, created a new project under a release branch. In the Java handler function, received, validated, enhanced, and prepared the request body. Sent the request to the respective Backend URL using the HTTPPOST method.
- Programmed URLs inside a Java class and configured them in a Lambda DynamoDB table in key-value format. Also created Error Mapping tables in DynamoDB and invoked the Backend.
- Configured Postman with the URL, VERB, headers, and body. Generated a Pop token and tested the API. Used CloudWatch to view logs of request hits and monitor responses from the backend.
- Created the Angular front-end web application using components, classes and services. The data is injected between the backend and frontend by providing the base URL as the Spring Boot port number.
- Used UML for creating Class Diagrams to represent the static view of a system, showing classes, attributes, operations, and their relationships. It is also used for creating Activity Diagrams to represent the flow of control in a system, showing activities, decisions, and the flow of data between them.
- Additionally, used UML for creating Sequence Diagrams to represent the interactions between objects in a sequential order, showing the messages exchanged between objects over time and used for both design and documentation purposes.
- Worked with Rally for project management, collaborating with multiple team members such as architects, designers, developers, testers, and product owners. Using Rally entered day-to-day activities, attached artifacts and resources, and estimated timelines.

Organization: Fiable Consulting Inc., New Jersey, United States (Apr 2022 – Oct 2022)

Project 1: Quick Market E-Commerce

Role: Full Stack Developer

Technologies: Angular 13.0, Rxjs, NgRx, TypeScript, Node.js, Bootstrap, CSS3, Apigee, Java Spring Boot, Spring MVC, JDK 18, Build Tool Maven, JPA Hibernate, MySQL 8.0, Navicat 16.1.0, VS Code, IntelliJ, OAuth2, JWT, Postman, Micro Services, REST API, JUnit, Chrome Developer Tools, Confluence, Jira, and Kanban

- Developed an E-commerce project suitable for business-to-consumer style websites like Amazon and Flip Kart, catering to online shopping needs.
- Created the home page with Header, Body, and Footer components. The design is user-friendly, includes images and descriptions, offers easy navigation, and provides real-time information. The pricing system is simplified.

- Created the header component to display the website name, search bar, total price, and cart details. Created the body component to display various list of items with their price and quantity details.
- Created the footer component to display the checkout details and provided navigation to credit card and shipping address details.
- creating API proxies and implementing OAuth2.0 and JWT security using JavaScript and Java in Apigee Edge.
- Used Spring Initializer to create a Spring Boot application with dependencies such as Spring Data JPA, Rest Repositories, MySQL Driver, and Lombok developer tools. Created tables using MySQL and Navicat.
- Created the Angular front-end web application using components, classes, and service files. The data is injected between the backend and frontend by providing the base URL as the Spring Boot port number.
- Added Cross Origin annotation in the Spring Boot Repository files and started the Spring Boot application to retrieve and display data in the front end.

Project 2: User Authentication Credentials

Role: Full Stack Developer

Technologies: Node.js, ReactJS, Express.js, Redux, Rxjs, Bootstrap, Apigee, JDK 18, Java Spring Boot, Spring MVC, JPA Hibernate, MongoDB Atlas, MongoDB Compass, AWS Cloud, VS Code, IntelliJ, OAuth2, JWT, Postman, JUnit, and Chrome Developer Tools

- Created a project that involves user authentication. This typically includes verifying user credentials, such as an email and password, with a database.
- Installed Bootstrap, jQuery, and popper.js libraries and installed the Bootstrap, jQuery, and popper.js libraries. These libraries provide additional functionality and styling options for the application.
- Imported the React DOM library and it is the entry point for rendering React components into the DOM (Document Object Model).
- Implemented a navigation bar using a class component. A navigation bar typically contains links or menus to navigate between different sections of the application.
- creating API proxies and implementing OAuth2.0 and JWT security using JavaScript and Java in Apigee Edge.
- Established a connection to MongoDB Atlas, a cloud-based database service provided by MongoDB. This allows to interact with a MongoDB database.
- Added the Cross Origin annotation to the Spring Boot repository files. This annotation enables cross-origin resource sharing, allowing the React application (running on a different port) to make requests to the Spring Boot backend and specified the port number in the Spring Boot repository files.
- Started the Spring Boot application, which serves as the backend. With the MongoDB Atlas connection and the Cross Origin settings, retrieved data from the backend and displayed it in the front-end of the React application.

Project: Super Mart E-commerce (Dec 2020 – Nov 2021)

Organization: Real InfoSoft Solutions, Chennai, Tamil Nadu, India.

Role: Full Stack Developer

Technologies: Angular 12.0, Rxjs, NgRx, HTML5, CSS3, JavaScript, Python3.7.3, Django 2.2, MySQL, VS Code, PyCharm, Micro Services, REST API, and Chrome Developer Tools

- Developed an E-commerce project for Royal Mart, like business-to-consumer websites like Amazon and Flip Kart.
- Created the home page with Header, Body, and Footer components. The design is User-friendly, includes Images and descriptions, offers easy navigation, and provides real-time information. The pricing system is simplified.
- Created the header component that displays the website name, search bar, total price, and cart details.
- Created the body component to display a various list of items with their price and quantity details.
- Created the footer component to display the checkout details and provide navigation to credit card and shipping address details.
- Used Angular for rendering the user interface, displaying data, and handling user interactions and Angular components interacted with Angular services to fetch data from the backend APIs and update the user interface.
- Used Python and Django to create the backend of the project. Utilized the Django Rest Framework (DRF) library to build RESTful APIs. Data is fetched from MySQL database and rendered in the frontend. Django responded to API requests from the Angular frontend, performed the necessary operations, and returned JSON data.

Project: Priya Agency (Feb 2019 – Nov 2020)

Organization: Real InfoSoft Solutions, Chennai, Tamil Nadu, India.

Role: Full Stack Developer

Technologies: ReactJS 16.0, HTML5, CSS3, JavaScript, Rxjs, Redux, Node.js, Express.js, MySQL, Micro Services, REST API, and Chrome Developer Tools

- Designed and developed a user-friendly website for a small business, showcasing their products, services, company information, and contact details.
- By utilizing React's responsive design capabilities, ensured that the website is fully optimized for various devices, offering a consistent and engaging experience across desktops, tablets, and mobile phones.
- Implemented SEO best practices within the React application, allowing the website to be easily discoverable by search engines and enhancing its ranking on search engine results pages.
- Throughout the development process, collaborated closely with clients, understanding their specific needs, and incorporating their feedback in real-time.
- React's efficient development workflow and reusable components aided in quick iterations and effective communication.
- Leveraging React's modular approach and development efficiency, successfully delivered the project within agreed-upon deadlines and budget constraints, ensuring a timely and cost-effective solution.
- Started the Node.js application, serving as the backend. With the MySQL database connection and CORS settings, retrieved data from the backend and displayed it in the frontend of the React application.

Project: CH Laboratory information system (Nov 2014 - Dec 2015)

Organization: ILogix Innovative Solutions, Chennai, Tamil Nadu, India

Role: Senior Software Engineer

Technologies: AngularJS, JavaScript, CSS, Bootstrap, MySQL, Java Spring Boot, Rest API, JPA Hibernate, IntelliJ, VS Code, and Jira

- Developed an LIS healthcare system that tracks and stores clinical data about patients during lab visits. It includes features for patient check-in, demographics, order entry, specimen processing, and result entry.
- Worked on the Order Entry and Result Entry modules, implementing an electronic data capture process to reduce errors and save time. The system manages various visit details like appointment dates, primary care physicians, patient information, sample types, physician test orders, billing information, and result transmission.
- Used Agile Scrum methodology and technologies like AngularJS, JavaScript, CSS, and Bootstrap for the front-end. For the back end, utilized Spring Boot, Maven, Hibernate ORM, and worked with JSON, XML, and RESTful Web Services.

Project: Kaveri Life Insurance (Oct 2011 - Oct 2014)

Organization: ILogix Innovative Solutions, Chennai, Tamil Nadu, India.

Role: Software Engineer

Technologies : HTML, JDK, Servlet, JSP, JavaScript, CSS, MySQL, Eclipse, Tomcat, XML, SOAP, Hibernate, JPA, AJAX, Duck Creek, JDBC, and Jira

- Worked on an insurance project where I focused on the Insurance underwriting process. It involved classifying risk factors to calculate premiums for clients. The process was divided into Preferred Risk, Standard Risk, Substandard Risk, and Declined Risk modules.
- As a Java full stack developer, participated in the development of a web-based application using Java and related technologies. Following Agile methodology, I designed and developed modules using the MVC architecture.
- Handled front-end development using JSP, HTML, JavaScript, jQuery, and AJAX. I created the presentation and controller layers, utilizing technologies like JSP, jQuery, HTML, CSS, custom tag libraries, JSTL, and DAO. Hibernate ORM was used for database interactions with MySQL.
- Used Duck Creek Policy, for quoting, rating, and underwriting and also used for claims management and billing, as well as tools for digital engagement and analytics.

- Used Eclipse as my development environment, deploying the application on Tomcat Server. Additionally, worked on web services with SOAP/HTTP bindings, version control with GitHub, and dependency management with Maven.

Academic Projects

Dissertation: Spyware Technology: A Survey (Jul 2008 - Aug 2009)

Organization: The PRIST University, Thanjavur, Tamil Nadu, India

Role: Researcher

- My dissertation titled "Spyware Technology: A Survey" sheds light on the growing problem of spyware. Spyware refers to unauthorized software that secretly collects information from our computers and shares it with others. It encompasses various intrusions on our systems.
- Submitted this dissertation to The PRIST University in Tamil Nadu, India. It emphasizes the importance of users reading and understanding software agreements before installation. It also calls for clear notifications from software publishers about their software's actions.
- Explored what spyware is, how it works, its purpose, and how it differs from viruses. Discussed common spyware types, their involvement in criminal acts, lawsuits against spyware, impact on PCs and corporate networks, and government use of spyware.
- Provided solutions for handling infected systems, considering spyware and operating systems, and sharing best practices. The dissertation aims to raise awareness about spyware and equip readers with knowledge and strategies to tackle this issue effectively.

Project: Secure Corporate Mailing (Dec 2006 - May 2007)

Organization: ILogix Innovative Solution Chennai, Tamil Nadu, India

Role: Developer

Technologies: JDK 1.5, Jakarta STRUTS 1.27, Apache Tomcat 5.5, MySQL, and Eclipse 3.0

- Worked on a project called "Secure Corporate Mailing" for ILogix Innovative Solution, an IT company in Chennai, India. The goal was to create an internal email service for their employees, reducing costs and enhancing security.
- The system, developed using STRUTS framework, offered various features such as easy file attachment, unlimited file capacity, secure message compression using algorithms like SHA and MD5, and RSA encryption.
- Enabled mail transfer between clients through POP3 Server with SMTP protocol. The project focused on code reusability, cost efficiency, and user-friendliness.
- Overall, the "Secure Corporate Mailing" project successfully provided ILogix Innovative Solution with a secure and cost-effective in-house email service for their employees.

Project: Library Information system for SCILET (Dec 2003 – May 2004)

Organization: The American College, Madurai, Tamil Nadu, India

Role: Developer

Technologies: Visual Basic 6.0, MS Access, and Project Wizard

- Developed a Library Information System project for SCILET (Study Center for Indian Literature in English Translation) at The American College, Madurai, India. SCILET is a research library with a collection of over 6000 volumes of Indian literature in English or translated into English.
- The project aimed to make library transactions quicker and more efficient, reduce manpower requirements, generate reports accurately and swiftly, provide real-time library status updates, handle user queries effectively, and prioritize user-friendliness.
- Overall, the Library Information System project improved the efficiency of SCILET's library operations, offering faster transactions, better reporting, and a user-friendly experience for both staff and patrons.