# Parvathirajan Natarajan

## Contact

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## Tools, Technologies and Methodologies

- ✓ Programming Languages: Python, Core Java, SQL (Redshift, MS SQL Servre, Oracle), React
- ✓ Cloud & Devops: AWS (S3, Lambda, API Gateway, etc.,), CDK, SAM, Docker
- ✓ Bigdata and Workflow: Apache Spark and Apache Airflow
- ✓ Version Control: GitHub, Bitbucket
- ✓ OS and Scripting: UNIX, Shell Scripting
- ✓ Methodologies: Agile (Scrum), JIRA

## Interests & Hobbies

- ✓ StackOverflow Contributions
- ✓ Web Page Development (Personal Blog)
- ✓ Open Source Project Development
- ✓ Music, Games & Travel
- ✓ Small Scale Trading

## Languages

- o English
- o Tamil

## Summary

Parvathirajan is a highly accomplished Software Developer with 8 years of experience, specializing in Framework development and Cloud technologies. His career has encompassed various phases of the Software Development Life Cycle (SDLC), including Data Analytics, Product Development & Delivery, and Cloud Migration projects.

## Experience

**Deloitte Shared Services India LLP.**      **02/2021 - Present**

Role: Senior Software Consultant
Client: Insurance Companies in US
Tech Stack: Python, PySpark, AWS, Rest API, Dynamo DB, Typescript, React

**Contributions, Roles and Responsibilities:**

- Leading engineering efforts for U.S.-based insurance clients, with a strong focus on solution design, stakeholder engagement, and Agile delivery.

- Managing a cross-functional team of 8 to 10 developers, ensuring timely sprint planning, backlog grooming, and successful delivery through Scrum methodologies.

- Spearheaded the design and implementation of a large-scale data processing pipeline using PySpark, orchestrating the extraction and transformation of 500+ GB of data from the Data Lake and integrating it into multiple downstream databases across business units.

- Initiated and led the end-to-end development of a data transfer plugin, originally built for Gmail and later extended to Outlook, enabling seamless migration of email content to backend systems and the enterprise data server.

- This innovation is now used by over 1000 employees globally, driving measurable efficiency in internal data workflows.

- Directly interfaced with clients to gather business requirements and translate them into a well-defined technical roadmap and implementation strategy.

- Ensured high-quality software delivery by establishing robust QA testing protocols and overseeing test case execution for performance, functionality, and integration.

## Accomplishments

- Distinguished as the Author and Maintainer of "The Mask" a Python package designed for masking PII data in JSON files. Available at https://pypi.org/project/the-mask/.

- Led the development of a robust Data Transfer plugin for Outlook, serving as a critical tool for the entire organization. This highly reliable framework facilitates seamless data transfer from email platforms to designated Data Servers, streamlining data management processes.

- Achieved first place in a prestigious Hackathon competition by leading a groundbreaking Python project. The project, slated for open-source release on python-pip/GitHub, serves as a highly adaptable file conversion utility. It excels in simplifying complex nested JSON and XML files, offering a comprehensive selection of over 30 conversion possibilities. This initiative not only showcases technical prowess but also underscores a commitment to contributing valuable resources to the broader software development community.

## Previous Professional Exposure

**Systech Solutions Inc.,**                                      **09/2017 – 02/2021**

Role: Software Engineer
Client: Media, Retail and Insurance companies from USA
Tech Stack: AWS, Python, PySpark, Databricks, Docker, and Databases (Redshift, SQL Server and Dynamo DB)

**Contributions, Roles and Responsibilities:**

- Collaborated extensively with onsite leads and clients to gather project requirements, actively participating in all phases of the development lifecycle.

- Proficiently prepared comprehensive documentation, including Technical Specifications, Designs, and Quality Assurance plans, ensuring clarity and adherence to project objectives.

- Demonstrated effective project management skills, consistently delivering projects on schedule while maintaining high-quality standards.

- Spearheaded the conceptualization and workflow optimization of projects, ensuring seamless execution throughout the development process. Maintained and optimized the CI/CD pipeline for project deployment.

- Introduced automation into the development process by leveraging Python frameworks and establishing process pipelines, resulting in significant time and effort savings.

## Education

**B.Tech., Information Technology**                                      **2013-2017**

- Collaborated on a project named "Smart Crawler" focused on SEO optimization using Java within the Eclipse IDE.

- The project's primary objective was to enhance the efficiency of data retrieval from multiple web pages, incorporating key concepts reminiscent of the Beta version of Google Web Crawler, with the aim of minimizing time consumption.