VENKATA LAKSHMI PARIMALA PASUPULETI

✉ venkatalakshmiparimala@gmail.com 📍 Virginia, United States in [Linkedin] ⊙ [Github]

SKILLS

Programming and Operating Systems: PHP, Python, R , Object Oriented Programming (OOPS), Unit tests, Web Services, AJAX, HTML,JavaScript, CSS, jQuery, MVC, Design patterns, Fusebox, Unix, Windows, Linux.

Testing: PHP Unit, Test Driven Development (TDD), or Behavior Driven Design (BDD), Selenium Automation

Databases & Storage: Postgres, MySQL, Oracle

Cloud Computing concepts:RDS ,AWS (S3, EC2),Data Glue.

Environment Management: Docker or Containers CI/CD

Code management: GitHub

Reporting Tools : PowerBI

Web Frameworks: Basic NodeJS.

Libraries/Frameworks: PyTorch, NumPy, Pandas

Methodologies: Data Analysis. Data Modeling.

Version Control, Task &project Management & Performance Monitoring: SVN, Git, JIRA, ClickUp, New Relic, Agile methodologies, Waterfall,scrum

Designing: Adobe Acrobat DC Pro, Figma, Adobe Photoshop**.**

Queue Management: RabbitMQ**.**

Embedded Systems and Debugging: Basic knowledge of embedded processors and real-time operating systems, excellent debugging skills.

WORK EXPERIENCE

Software Engineer, Entrata India (Db Xento Systems) – Pune, India   **(Oct 2018 – Aug 2024)**

- Led and participated in more than 120 Agile Scrum sprints, including Sprint planning, story point estimation using Fibonacci sequence, and daily standups.
- Designed and optimized 200+ SQL queries, implementing caching strategies, triggers, log tables, and audit tables to enhance database performance and scalability.
- Made more than 25 crucial database architecture decisions, developing complex schemas and ensuring optimal data structuring.
- Developed and mentored team members in web application development, leveraging PHP, AWS services, and cloud-based architecture for 40% faster deployments.
- Built end-to-end property management and affordable housing solutions, handling rental subsidies, rent calculations, and ledger management transactions annually.

- Spearheaded the transition to microservices architecture using Docker, achieving a 50% improvement in scalability and achieving reduction in execution time.
- Processed 1.6M+ HUD and Tax Credit income limit records over 5 years by developing SQL scripts for efficient data import and structuring. And automated eligibility workflows, defining criteria based on family size, income levels, and percentage thresholds, reducing manual effort by 80%.
- Managed and optimized financial transactions, including HAP (Housing Assistance Payments), rent schedules, tax credits, HUD payments, and income limits while ensuring 100% regulatory compliance.
- Led data security enhancements, implementing Libsodium encryption for 100% protection resident data records, including phone numbers and SSNs.
- Migrated 5K+ client documents to AWS S3, resolving 90% of storage constraints in legacy systems.
- Developed 56+ state-wise certification documents, integrating AWS S3 storage and Adobe Acrobat DC Pro for seamless retrieval and processing.
- Proposed a beta model to revamped the income limits module, leveraging Python, OpenAI models, PyTorch, reducing manual Excel operations by 80%.
- Optimized system debugging techniques, maintaining the bug count below 10 for 6+ months and developing 5+ internal debugging tools, reducing issue resolution time by 40%.
- Conducted 300+ peer code reviews, maintaining high-quality coding standards and collaborating with 10+ cross-functional teams to enhance project success.
- Covered 30%+ of module unit testing, significantly improving application stability and reliability.

Associate Software Engineer, Entrata India – Pune, India   **(Jul 2017 – Sep 2018)**
- Assisted in 20+ full-stack application development projects using PHP, JavaScript, AJAX, jQuery, and PostgresSQL.
- Developed and deployed property management modules, enhancing usability for users.
- Participated in crucial bug fixes, code debugging sessions, and performance enhancements, improving system stability by 35%.

Trainee, Entrata India – Pune, India   **(Jan 2017 – Jun 2017)**
- Acquired foundational experience in key software development technologies, including PHP, database techniques, and UI design.
- Worked closely with 10+ senior developers to understand Agile methodologies, version control using Git, and object-oriented programming concepts.

EDUCATION

Master of Science in Data Analytics Engineering, *George Mason University – Virginia, USA*   *2024 – 2025*

GPA: 3.78

Bachelor of Technology in Computer Science and Engineering, *Sree Venkateshwara College of Engineering – Nellore, India*   *2013 – 2017*