Karthick Gunasekar

Binghamton, NY | (607) 235-8698 | kgunase37@gmail.com | linkedin.com/in/karthick-gunasekar/ | github.com/kgunase1

EDUCATION

Binghamton University, State University of New York, Thomas J. Watson College of Engineering and Applied Science
Masters of Science in Computer Science
Cumulative GPA: 3.5/4.0   *May 2024*

PSNA College of Engineering and Technology, Dindigul, Tamil Nadu, India
Bachelor of Engineering in Computer Science and Engineering   *May 2017*
Cumulative GPA: 3.5/4.0

SKILLS

Technical Skills: C, C++, Java, Javascript, React, Python, XML, CSS, SQL, MySQL, NoSQL, PL/SQL
Frameworks and Libraries: Spring, Spring MVC, Spring Boot, JPA, JDBC, Hibernate, REST API, Microservices, AWS, kafka
Development Tools: Visual Studio Code, MongoDB, Postman, Jasper, Git, Maven, Jenkins, Splunk, Kibana, SonarQube, CI/CD
Additional: Multithreading and Concurrency, Scrum, Functional Testing, Unit Testing, Docker, Kubernetes, Google Cloud Platform
Relevant Coursework: Data Structures and Algorithms, OOPS, Database System, Cloud Computing, Design Patterns

PROFESSIONAL EXPERIENCE

PayPal(Payments - SWITCH)   **Chennai, India**
Product and Platform Engineer   *August 2020 - August 2022*
- Orchestrated integration between APIs and vendor applications to seamlessly convert incoming transaction data into vendor-specific formats and vice versa
- Ensured robust security measures by implementing Personally Identifiable Information (PII) Masking and Validation, safeguarding the integrity of customer and merchant data
- Devised a real-time application simulation approach, effectively mimicking vendor applications' interactions through the creation of Simulator rules and port configurations
- Developed a comprehensive Python script for automating health checks, collecting and disseminating daily reports encompassing Unit Testing, Functional Testing, PMD, and findBugs assessments
- Managed and rectified discrepancies in each component's Early Continuous Integration/Early Continuous Deployment (ECI/ECD) phases, tackling challenges spanning Development, Testing, and Release stages
- Successfully upgraded internal framework versions to their latest iterations while ensuring seamless integration with corresponding dependencies, resulting in optimized performance and modernized codebase

IVTL Infoview Technologies Private Limited(HUE - Performance Management)   **Chennai, India**
Software Engineer   *July 2017 - July 2020*
- Designed and developed ERP products, such as Asset Management and Sales Plan Management, to enable organizations to efficiently manage their products and calculate the profit/loss of individual assets
- Orchestrated end-to-end database connectivity across the application, orchestrating the creation of relational databases within RDBMS. Deftly defined interrelations among these databases, ensuring data integrity and coherent functionality
- Improved the efficiency of the ERP products by implementing optimization methodologies, notably in SQL, to reduce the response time for importing and validating bulk data by 70%.
- Improved the loading efficiency of the ERP product, which handles millions of records, by utilizing Elastic Search and achieving an 80% increase in speed
- Assumed comprehensive ownership of product release lifecycle end to end. Conducted code reviews using tools such as SonarQube and SonarLint.

Projects

Pixtract : A searchable image storage database.
- An application that facilitates cloud-based image storage, along with the capability to automatically tag, recognize, categorize, and extract digital notes from images.
- This design enables the creation of a global search interface, making all uploaded media content text-searchable. These functionalities are achieved by leveraging Amazon Web Services features, including AWS Textract, AWS Rekognition, and DynamoDB

Awards
- Received "Critical Resource Award" for the years 2018 - 2020, IVTL Infoview Technologies Private Limited
- Received "GEM Award" for Best Performer, PayPal, 2022