Arjol Pengu

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EDUCATION

Siena College, Loudonville, NY
Major: BS in Computer Science
Minor: Business

TECHNICAL SKILLS

- Extensive experience in Java, Python, HTML, CSS, JavaScript, Linux/Unix, AWS
- Experience in Angular, React.js, Node.js, PHP, JSON, AJAX, Oracle SQL, jQuery, C, Pthreads, MPI, Agile, QlikView, SSIS, ArangoDB, MySQL, .NET, SQL Server, C#, Linux, Bash Shell Scripting, Bootstrap, RESTful APIs, Apache Spark, Apache Hive, Pandas, Big Data, Google Cloud, Terraform, boto3, Spring, Hibernate, JPA, Gradle, Liquibase, Openapi, Swagger
- Knowledgeable in Microsoft Word, Excel and PowerPoint, Git, GitHub, Eclipse, NetBeans, IntelliJ, Visual Studio
- AWS Certified Associate Developer

PROFESSIONAL EXPERIENCE

EY

Senior Software Engineer   **April 2024-Current**

- Key contributor in developing distributed, high-volume Java microservices using Spring Boot and the Google Cloud Platform, providing a robust and scalable platform enabling all of our client's needs
- Collaborated with other cross-functional teams, product owners, and designers to identify and resolve key technical challenges
- Architected, developed and operated Java services in order to integrate with third party applications such as Microsoft Dynamics to deliver positive client
- Worked directly with stakeholders to understand, document and develop APIs and systems to enable service-to-service integrations reducing reliance on custom one-off implementations by leveraging RESTFUL APIs, Odata and Microsoft Dynamics
- Leader and key contributor in deploying and sustaining distributed high-volume services in production
- Responsible for scaling multiple different microservices, such as user identity management services and platform auditing services across the platform
- Collaborated with frontend engineers to develop APIs enabling critical functionality, using GCP Storage, Java, JPA, Liquibase and PostGres
- Lead in architecting and development of our integration microservice, responsible for communication and data management of third party service. Developed using Spring Boot, OpenApi, Hibernate, Liquibase, PostGres on Google Cloud Platform

Nuvalence (Acquired by EY)

Software Engineer II (Java Spring BE)   **January 2022-April 2024**

- Designed and led the development of a scalable distributed microservice platform to streamline regulatory paperwork processing across multiple domains, leveraging Java Spring Boot, Gradle, PostgreSQL, JPA, and Camunda to meet client requirements efficiently
- As the lead engineer and team lead, architected and implemented the entire auditing architecture for the system, which provided agents easy access to system activities, increasing user confidence while also designing, implementing, and leading multiple time-critical features in a small team.
- Developed and led the orchestration workflow for the license life cycle using Camunda, JavaSpring, and OpenAPI. Designed and developed multiple backend APIs to enable key functionalities such as license issuance, collaborating closely with front-end developers to determine API contracts.
- Utilized Google identity and Firebase to create and manage users and leveraged LibreOffice to generate documents and licenses that would be issued to users.
- Engineered robust and extensible application workflows and RESTFUL APIs using Camunda, Java Spring, Hibernate, and OpenAPI, which resulted in improved user experiences and enhanced scalability.
- Collaborated with product owners, engineers, and clients to provide expert guidance in designing, implementing, and delivering high-quality code solutions, resulting in feature completeness.
- Managed living documents and architecture to provide up-to-date guidance, promote collaboration, and accelerate onboarding of new team members.
- Continuously evaluated and tested the system for performance and scalability to maintain optimal functionality.
- Evaluated, tested, and demonstrated multiple key POC/prototypes to build client confidence, enhance the client experience, and enable the company to scale more quickly across multiple clients.

Software Engineer (Full Stack)   **June 2021-December 2021**
- Responsible for developing, delivering and designing a high performance pricing engine based on client needs and wants, by leveraging upon AWS Micro-Services such as ApiGateWay, AWS Lambda and ECR using React.js and Java
- Drove the use of PrimeReact as our React.js framework of choice for its simplicity, ease of use and abundance of features
- Collaborated with multiple client teams to architect and build our infrastructure, and responsible for the entire software lifecycle using Jenkins and Terraform
- Built RESTFUL services using API Gateway to develop an easy way of communicating between frontend and backend
- Diligently held multiple discovery sessions to understand the clients needs and frequently held demos for C-level executives to show the development life cycle using agile methodologies
- Onboarded clients onto the application, performed frequent knowledge transfers with client side engineers to ensure a smooth hand-off after the engagement
- Provided direct technical guidance to clients after project completion

3M

Platform Software Developer   **September 2019-June 2021**
- Responsible for creating, driving, and delivering the ongoing product vision of a centralized health data platform capable of handling both client and business users Big Data needs, by leveraging and building upon AWS Micro-services using Python
- Analyzed, processed, and transformed large datasets to generate customer value, by utilizing distributed big data technologies such as Apache Spark, Apache Hive, Pandas, and AWS Glue
- Leveraged RESTFUL services using API Gateway to provide an easy to use and integrate front-end for both customers and engineers
- Evaluated new technologies and approaches as we continued to evolve our health data platform for increasing scale and complex business requirements
- Collaborated with cross-functional agile teams to architect and build our infrastructure, and responsible for the entire software lifecycle using AWS CI/CD technologies
- Worked closely with stakeholders to understand their use cases & needs

Siena College

Alexa/Slack Bot Product Owner, Developer   **September 2018-May 2019**
- Invoked HTTP requests to Cheat.sh and queried the result to end-users
- Created AWS Lambda triggers to respond to Alexa commands
- Connected and queried AWS, Cheat.sh and Slack to allow users to prompt a coding question and get a response using Node.js

Regeneron Pharmaceuticals

IT Analytics Intern   **September 2018-May 2019**
- Performed ETL operations across servers, transferred databases and metadata across different servers
- Queried reports for End-Users, using MSSQL and creating complex query structures
- Built data marts and dashboards for business-driven needs, allowing users to view analytics and automate tasks
- Implemented and Designed an SSIS-Automation tool, allowing users to automate ETL tasks

Summer Intern   **May-August 2018**
- Created a headcount tracking software utilizing QlikView and a reporting utility using VBScript and SQL
- Set foundational work for being able to schedule personnel within QlikView

Siena College   **September 2017-May 2018**

Classroom/Lab Assistant and Group Tutor
- Under the guidance of CS faculty, assisted students with the proper completion of lab/lecture material
- Facilitated students understanding of problems in a one of one and group environment

Siena College for METAL (Map-Based Educational Tools for Algorithm Learning)   **May-July 2017**

Web Application Research Intern
- Implemented new map-based algorithms and implemented a MySQL DB
- Revamped the overall user interface of the METAL program to create a more user-friendly platform
- Co-author of Map-based Algorithm Visualization with METAL Highway Data accepted to SIGCSE 2018, The 49th ACM Technical Symposium on Computer Science Education.

RELEVANT PROJECTS

Projects
- Personal Website, Flashscript Game Development, Ticket-To-Ride Java Game Development, Trivia Game Website, Puppy Bot Robot, Raspberry Pi Cluster, Raspberry Pi DNS Ad-Blocker and Bluetooth Speaker, Developer Cheatsheet Bot, Powerapps Barcode Scanner, and REST API