Preetham John

(Seattle, WA | +1-928-221-1930 | preethamjohn05@gmail.com | https://www.linkedin.com/in/preetham-john)

Availability to Start:	Immediately
Interview Availability:	Monday to Friday 08:00 AM to 05:00 PM PST

SUMMARY:

- Experienced Software Developer with a strong interest in Software Development Engineer, Data Science/Analysis, Artificial Intelligence, Machine Learning, and Databases.

SKILLS:

- **Languages:** C, C++, Python, R, SQL, Java, React, PHP, Bash, .NET, Angular, jQuery and JavaScript
- **Web Technology:** HTML, CSS, Bootstrap, JavaScript, RxJs, PHP, Node, NPM, REST API, Cloud (AWS, GCP, Azure)
- **Database:** MySQL, PostgreSQL, Oracle, SQL Server, T-SQL, MongoDB, DynamoDB
- **AWS:** Elastcsearch, SQS, SNS, EC2, S3, IoT, Cloudwatch, IAM roles/policies, Lambda, API Gateway
- **Data Science:** TensorFlow, Keras, Scikit-learn, PyTorch, NumPy, Matplotlib, Pandas, NLP, BeautifulSoup
- **Other Skills:** GIT, Jenkins, Docker, XML, Spring MVC, Spring Core, Spring Boot, J2EE, DevOps CI/CD, Linux

EDUCATION:

- **Northern Arizona University, Flagstaff, AZ** **May 2022**
  Masters of Science, Computer Science

- **Visvesvaraya Technological University, Bengaluru, India** **Jun 2019**
  Bachelors of Engineering, Computer Science

EXPERIENCE:

Amazon AWS, Seattle, WA **Sep 2022**
Software Development Engineer

- Performed various tasks, including Java and Ruby on Rails, that have had a severe impact on customers. Utilized dependency injection techniques such as Dagger and Spring Beans to enhance the smoothness and loose coupling of our Alarm System.
- Managed and optimized large datasets using Hive at Amazon, ensuring efficient data processing and storage.
- Collaborated with data scientists and analysts to provide accessible and organized data for various business units.
- Developed and delivered a comprehensive suite of tools, powered by Elasticsearch and DynamoDB, to device owners for advanced device management and data analysis capabilities.
- Spearheaded the management of flexible data derived from IoT devices(JSON) feature, employing customers to index updates 10x times efficiently and aggregate data queries across multiple sources.
- Implemented and maintained services using CloudWatch monitoring solutions for a diverse range of AWS resources, optimizing system performance and enhancing operational visibility.
- Collaborated with the development team to ensure seamless solving of on-call situations.
- During my tenure as SDE, I single-handedly undertook the Region Build Project. This involved deploying all our existing services for a new region, including pipeline migration and synthesis. Also load tested 1M devices connectivity. This included creating SQS Queues and subscribing to the SNS topics for that region.
- Worked with Internal tools such as Region Management Software and Catalyst to streamline the Region Build Process, demonstrated expertise in integrating new features into the existing infrastructure, conducting comprehensive unit tests, and deploying them across various regions worldwide using diverse CI/CD pipelines. Contributed to documentations and amazon code reviews.

VILLAGE BOOK BUILDERS, Utah (Remote) **May 2021 – Aug 2021**
Backend Software Engineer Intern

- Designed and implemented a sophisticated online web application utilizing Python and Django framework, providing seamless mentor and student engagement platforms with interactive functionalities.
- Collaborated closely with feature and data engineering teams to facilitate robust product reporting, enabling data-driven insights

- Executed digital advertising campaigns during the internship, including creating, optimizing, and analyzing ad content.
- Collaborated with the marketing team to align ad strategies with overall promotional goals.
- for continuous product improvement and development. Also built Ads based payment to generate revenue.

DIGISEC360, India　　　　　　　　　　　　　　　　　　　　　　　　　**Aug 2020 – Jan 2021**
Data Engineer

- Orchestrated the development of a dynamic company web page, employing a versatile technology stack comprising JavaScript, PHP, HTML, CSS and Bootstrap to enhance user experience and interactivity.
- Collaborated with software architects to design and implement complex features, ensuring code quality and performance using C++.
- Implemented data analysis and machine learning algorithms using Python
- Contributing to the development of robust cybersecurity solutions.
- Collaborated with cross-functional teams to integrate Python scripts into the overall system.
- Played a key role in developing secure and efficient software solutions using C++.
- Created and delivered presentations to train field sales representatives on new product features Demonstrated proficiency in data engineering by skillfully extracting, transforming, and integrating data from diverse sources, paving the way for in-depth exploratory data analysis, modeling, and comprehensive reporting. Also used Agile software delivery environment.
- Constructed a data visualization dashboard utilizing Python, JavaScript, and MySQL, empowering stakeholders with actionable insights and intuitive representations of complex datasets. This helped to catch the eye of investors.

SELVITATE TECHNOLOGIES, India　　　　　　　　　　　　　　　　　**Aug 2019 – Aug 2020**
Software Developer

- Proficiently employed systems engineering methods, tools, and processes to develop Sales Engine using PHP, AngularJS, and SQL.
- This tool significantly contributed to generating company revenue.
- Developed and maintained server-side logic using PHP
- Demonstrated capability in delivering technical support and process engineering expertise to enhance unit operations within production activities and plant projects, using Agile Methodologies.
- Collaborated with front-end developers to integrate user-facing elements, and optimized performance through PHP for Selvitate Tech's web applications.
- Skilled in conducting comprehensive supply chain analyses with a focus on leading to data-driven recommendations that effectively reduce costs and elevate customer service standards.

ACADEMIC PROJECTS:

DATA SCIENCE: PREDICTION OF HEART DISEASE USING AI/ML　　　　　　**Jan 2022 – Apr 2022**

- Collaborated in a team of three to design the model
- Employed Decision Trees and Single Layer Neural Network algorithms to conduct machine learning tasks, achieving an impressive average prediction accuracy of 91%.
- Conducted a rigorous model comparison analysis to evaluate the performance characteristics, trade-offs, and suitability of Decision Trees and Single Layer Neural Network algorithms for the given tasks.

BIG DATA: LARGE SCALE DATA STRUCTURE PROJECTS IN GENOMIC DATA　　　**Jan 2021 – May 2021**

- Led team of two to design and develop different combinations of algorithms using C++
- Employed advanced search algorithms, including Smith-Waterman, BLAST, Trie, and Trees, to identify key genetic patterns and mutations relevant to COVID-19.
- Collaborated with bioinformaticians and geneticists to translate project findings into meaningful biological implications, contributing to the understanding of COVID-19 transmission dynamics and genetic diversity.

STUDENT PLACEMENT DATABASE MANAGEMENT SYSTEM　　　　　　　　**Aug 2018 – May 2019**

- Spearheaded the development of a comprehensive Student Data Management System
- Developed a user-friendly UI leveraging Java's frontend capabilities, facilitating seamless data entry, retrieval, and updates for administrators and authorized personnel.
- Successfully integrated Java JDBC (Java Database Connectivity) to establish seamless communication between the frontend and the JDBMS, enabling real-time data synchronization and efficient database operations.