

Harsh Bhargava

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Skills & Technical Proficiencies

- **Amazon Web Services:** API Gateway, CloudFormation, CloudFront, CloudWatch, CodeBuild, CodeDeploy, CodePipeline, Data Pipeline, DynamoDB, EC2, EKS, Lambda, S3, SES, SNS, VPC, etc
- **Android Development:** Android Studio, Java
- **API:** .NET MVC, .Net Core, C#, Entity Framework, GraphQL, Spring Boot
- **Database Management:** NoSQL (DynamoDB, MongoDB), SQL (MySQL, RDS), SQLite, TimeStream
- **DevOps:** Docker, Harness, Helm, Jenkins, Kubernetes, New Relic
- **Programming Languages:** C, C++, GO, Java, Python, Swift
- **Messaging & Streaming:** Apache Pulsar
- **Web Development:** Bootstrap, CSS3, HTML, JavaScript (Node.js, ReactJS), TypeScript (React)
- **Tools & Methodologies:** Agile Development, Bitbucket, Git, IIS, Microsoft Office (Excel, PowerPoint, and Word), Redux, UML

Full-Stack Engineering Experience

Boomi, LP | Conshohocken, PA

- Company focused on developing and delivering iPaaS and cloud integration solutions for enterprise clients, enabling application integration, API management, and data automation across industries
- Served as a founding engineer of Boomi Event Streams, architecting a fully managed, cloud-native pub/sub streaming platform built on Apache Pulsar with multi-tenant topic & subscription management, and real-time high-performance data movement across enterprise systems

Senior Software Engineer | June 2022 - Present

- Deployed and managed multi-region Apache Pulsar clusters on EKS via Terraform and Helm, provisioning EC2 node groups for stateful components (ZooKeeper, BookKeeper, Broker, Proxy) and Fargate profiles for stateless microservices across 4 global regions, maintaining 99.9% uptime SLA
- Built a GraphQL API service for full lifecycle management of topics, subscriptions, and environment tokens, and a Pulsar Functions based dynamic routing engine with configurable filter groups and condition evaluation for enterprise-grade routing
- Designed and shipped a React based management portal for the Boomi Event Streams platform, enabling users to configure and manage Pulsar with Boomi specific settings, topic and subscription management, environment access control, and real time backlog and throughput observability
- Built a REST API plugin on the Pulsar proxy for Boomi-specific message production
- Designed and shipped a custom Pulsar Java client SDK with fluent builder API, JWT authentication, configurable batching, and structured error handling, enabling Producer, Consumer, and Listen operations
- Developed a time-series metrics pipeline using AWS Timestream and a GraphQL query service for historical analytics
- Built a native Boomi platform connector supporting Producer, Consumer, and Listen operations, integrating Event Streams directly into the Boomi iPaaS low-code ecosystem

iPipeline Inc. | Exton, PA

- Company focused on creating and managing SaaS based products for insurance industry, including clients like American National, John Hancock, Prudential, Mutual of Omaha, Principal, Protective
- Collaborated regularly with a cross-functional team of 6 people to create, support, and enhance R&D software in a Scrum based Agile Software Development Model

Senior Software Engineer | January 2022 - June 2022

- Built and supported websites, APIs, and databases using technologies like JS, TS, SQL, NoSQL, Java, and C#
- Worked closely with product owners and senior leadership as development lead, owning development lifecycle for 20+ products
- Increased automation on a primary iPipeline AWS product to improve efficiency through product self-reliance and simplified experience for non-technical content editors leading to 50% reduced turnaround time
- Led and developed a fully serverless automation project leading to computation of ~1,000,000 inputs in less than 60 seconds
- Led security and code coverage effort across the team's products to create more reliable and secure software
- Led onboarding and training of new hires, from Co-op to Senior level, and provided daily mentoring in product development
- Plus, all responsibilities listed below

Software Engineer | January 2020 - December 2021

- Kickstarted company's transition to AWS from on-premise, including creating and executing implementation plan to transition all products
- Worked closely with Chief Data Analytics Officer and led a product focusing on data analytics and user activity monitoring using TypeScript, C#, .NET Core, AWS Lambda, AWS DynamoDB and various AWS technologies
- Led and built products on AWS with C#, .NET Core, Python, and NoSQL and AWS technologies like Lambda, API Gateway, EC2, SQS, SNS and DynamoDB
- Owned the development and enhancement of existing products using technologies like JS, TS, HTML, MySQL, and C#
- Improved automation efficiency and reliability of AWS projects, reducing cost and time by 80%
- Plus, all responsibilities listed below

Associate Software Engineer | January 2018 - December 2019

- Developed and maintained numerous new and legacy products, using technologies ranging from Python, .NET Core, Java and TypeScript
- Developed company's first Cloud-based automation product on AWS in collaboration with two developers, using C#, .NET Core, JS, Python, Java and AWS technologies like Lambda, API Gateway, EC2, SQS, SNS and DynamoDB
- Automated Windows applications on 5000+ EC2 instances to gather data to support the above-mentioned product
- Plus, all responsibilities listed below

Software Engineer Intern | April 2017 - September 2017

- Developed a website, API and database to revamp a major legacy product using React with Typescript, C# .NET core, MongoDB and MySQL
- Maintained products with .Net, Python, DynamoDB & MySQL

Education

Bachelor of Science in Computer Science | Drexel University | December 2017

- Concentration in Computing Systems and Human-Centered Computing