

# BRIJESH VEER BAHADUR GIRI

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## Experience

**Google** | *Open Source Contributor* — *Chrome Team, Google Summer of Code 2025*

*Apr 2025 – Present*

- Developed a [feature](#) in C++ to capture and visualize the live state of **Chromium's** TabStrip to aid [debugging](#) of tab behaviors.
- Contributed to upstream patches in [Git](#), fixing a [bug](#) that prevented thumbnail refreshes for tabs on OS-level theme updates.

**Northeastern University** | *Teaching Assistant* — *Program Design, Boston, MA*

*July 2025 – Present*

- Tutored 200+ students in Java, MVC architecture, object oriented design, SOLID principles, design patterns, and JUnit testing.

**Bracebridge Capital** | *Software Engineer Intern, Boston, MA*

*May 2024 – Nov 2024*

- Optimized critical **trade analytics** components by identifying bottlenecks in T-SQL queries using **SQL Sentry**, leveraging database query tuning to achieve 25% speedup, resulting in faster data retrieval from financial databases.
- Built an internal App Store to streamline distribution of trading apps, using **C#** and **multi-threading** to deliver a highly responsive interface, resulting in seamless version management and automated updates across the trading floor.
- Automated CI/CD by containerizing services with **Docker**, and orchestrating deployments for 10+ services via **Azure DevOps**.

**HA Brick** | *Full Stack Developer, Mumbai, India*

*Feb 2022 – Jul 2023*

- Engineered core features in a cloud-hosted **ERP** system for an emerging startup to automate asset tracking, supply chain management, e-invoicing, and tax compliance with **C#**, **.NET** backend, **SQL** database, and a **React** frontend, streamlining operations for **20+** construction projects across Mumbai & Pune, and helping secure **\$1.4 million** in contracts.
- Implemented structured **logging** across microservices, and centralized **monitoring** by shipping logs to **AWS CloudWatch** and configuring alarms with 5+ **AWS SNS** notifications to enhance **observability**, accelerating incident response times.
- Collaborated with UI/UX designers to build a **React** frontend to visualize intuitive dashboards, leveraging Typescript to enforce type safety and modularity, **GraphQL** for efficient data fetching, and **Web Sockets** for supporting real-time updates.

**GEP Worldwide** | *Software Engineer, Mumbai, India*

*Jun 2019 – Nov 2021*

- Developed REST APIs and backend microservices for [GEP-SMART](#), a multi-tiered cloud-native SaaS platform supporting global procurement workflows for **Fortune 500** clients, in an agile environment, using **C#**, **.NET Core**, **SQL** database.
- Owned **end-to-end** delivery of a full-stack Rule Processing Engine that eliminated hard-coded business logic, empowering 200K+ non-technical users to configure 100+ business workflows through a **React** UI, reducing developer intervention.
- Scaled GEP-SMART's performance-critical rule execution API using a distributed, event-driven model with **Azure** Service Bus and **Redis** cache, enabling **asynchronous** processing of rule events by **microservices** and supporting horizontal scaling.
- Engineered a bulk [e-invoice processing](#) pipeline using **Azure Logic Apps**, **Apache Kafka**, and **Cosmos DB**, employing a highly-scalable, **event-driven** architecture to support processing 10K+ invoices, ensuring scalability during **high-volume** conditions.

## Education

**Northeastern University**

**Boston, MA**

*Master of Science, Computer Science* | **GPA: 4.0**

*Sep 2023 – Dec 2025*

Courses: Program Design Patterns, Database Systems, Algorithms, Mobile App Development, Software Engineering, AI, LLM

**Mumbai University**

**Mumbai, India**

*Bachelor of Engineering, Computer Science & Engineering*

*Jul 2015 – Jun 2019*

Courses: Algorithms, Data Structures, Operating Systems, Object Oriented Design, Cloud Computing, Database Design, Distributed Systems

## Skills

**Languages** – C#, Java, Python, TypeScript, JavaScript, C++, Shell

**Web & Frameworks** – .NET, Node, Express, React, RESTful Services, GraphQL, JUnit, Jest, HTML, CSS

**Databases** – SQL(MySQL, MSSQL, PostgreSQL), NoSQL(MongoDB, Redis, CosmosDB)

**Tools** – Git, Gitlab, Jira, SonarQube, Android Studio, Visual Studio, Selenium, Jenkins, Linux, SQL Sentry, GitHub Actions, Gradle

**Cloud Native** – Apache Kafka, Azure DevOps, Docker, Kubernetes, Azure(Logic App, Event Grid), AWS(CloudWatch, SNS)

## Projects

**Q&A Web Platform**, [JavaScript, React, Express, Node, MongoDB, [Github Actions](#)]

*Jan 2025 – Apr 2025*

- Built a full-stack Q&A web application, designing a modular React frontend in MVVM pattern, using custom hooks for API interactions integrating **Cypress** for end-to-end automation **testing**, to verify UI behavior and ensure reliability of critical flows.
- Designed a scalable backend in Node.js, Express with a MongoDB database to power RESTful APIs, with **JWT** authentication, rate-limiting, and input validation via **middlewares** to guard against denial-of-service, XSS, and CSRF **security attacks**.

**Budget Your Life**, [Java, Android Studio, Firebase, Material Design, JUnit, [Github Actions](#)]

*May 2025 – Aug 2025*

- Built an Android app to manage personal finances, leveraging **MVVM** architecture to ensure separation of concerns and decouple business logic and UI, while using **Repository** pattern and **Factories** to interact with databases for expense tracking.
- Implemented intuitive graphs, GPS location records, and smart reminders for automatic billing prompts at frequent locations, as well as regular expenses settings for recurring expenses. Achieved 95% code coverage through comprehensive Junit **testing**.