

DURGA KUNDU

USA Citizen

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Technical Skills

Languages: JavaScript, Java, C, Kotlin, HTML/CSS, Python, SQL, C, C++, PostgreSQL, MySQL, PHP, Scala, Visual Basic, Bash, NoSQL, Git, Vim

Developer Tools: Memcached, Miro, Mural, MongoDB, VS Code, Eclipse, Google Cloud Platform, Android Studio, AWS, Databricks, Microsoft Bing Chat, Jira, Confluence, Bitbucket, Opsgenie, Azure, Bamboo, Spinnaker, Terraform, Ansible

Technologies/Frameworks: React, TypeScript, Node.js, Jest, Cucumber, Linux, Jenkins, GitHub Actions, JUnit, WordPress, Kubernetes, DevOps, Microservices, REST APIs, Spring Boot, Flask, Tableau, Jenkins, Maven, Kafka, Docker, D3.js, Django, Android, OWASP, LESS, SASS

Experience

GasBuddy

May 2023 – Present

Software Engineer II, Backend/Frontend/Mobile

Sunnyvale, California

- Develop and implement scalable and efficient backend, frontend, and mobile solutions to support GasBuddy's platform.
- Design and develop efficient database structures and queries to optimize the performance of GasBuddy's Payment services backend systems.
- Perform testing to ensure systems meet documented user requirements.
- Troubleshoot, test, and validate software issues. Resolve issues with due urgency and maintain thorough documentation of all software solutions.
- Conduct code reviews of team members' code to ensure adherence to best practices and maintain code quality standards
- Collaborate with the team to develop and implement innovative and user-friendly solutions for GasBuddy's Payment services that enhance the customer experience.
- Work with the Product Owner to prioritize and plan the development of new features for GasBuddy's Payment services.
- Participate in regular team meetings to provide updates on the progress of feature development and discuss any challenges or roadblocks.
- Create and maintain technical documentation for GasBuddy's Payment services backend systems.
- Contribute to the continuous improvement of GasBuddy's Payment services backend systems by providing feedback and suggestions for enhancements and optimizations.
- Tools: Sumo Logic, AWS, Stripe, Dwolla, Wex, Bash, Node.js, JavaScript, SQL, Jira, PostgreSQL, Confluence, React, TypeScript, Kotlin, GitHub Actions, Kubernetes

Atlassian

July 2021 – August 2022

Software Engineer, Backend

Mountain View, California

- Inspired and mentored less experienced engineers and interns.
- Interviewed candidates in system design.
- Won 5th place in ShipIt 2022 hackathon with 7 teammates for employee birthday/anniversaries generator web app built with React Node.
- Worked in a startup-like environment that was fast-paced, continuously changing, and with rapidly increasing responsibilities day-by-day because the team had too many high-priority projects and too few engineers.
- Built and shipped back-end API features and capabilities daily in a highly scalable, cross-geo distributed environment.
- Ensured full visibility, error reporting, and monitoring of high performing backend services and independently created and presented multiple TechOps reports.
- Developed and debugged APIs and features for Cloud Security Link's Identity And Access Management and User Provisioning microservices to scale from syncing 1000s of group memberships to 12+ million on Atlassian Access Admin customer site.
- Optimized queries for databases containing tables for users, groups, and group memberships by 500x.
- Tools: Java, Kotlin, Splunk, SignalFx, Pollinator, LaunchDarkly, pganalyze, SAML, OAuth, Okta, Microsoft Azure, User Provisioning, Agile Methodologies, PostgreSQL, and AWS stack, including security, deployment pipelines, and automation.
- Completed on-call rotations, led the team to solve major incidents, attended to customer questions about team's services and APIs, wrote documentation of common questions and answers for support engineers to reference.
- Became an expert in streamhub, shipyard, and AWS SQS resources domain and wrote technical tutorials and reference pages for teammates and new hires.
- Gained experience as a Site Reliability Engineer (SRE)
- Demonstrated high-quality technical writing

- Managed internal and external customer requirements and expectations
- Gained experience defining SLOs/SLIs and implementing monitoring, alerting, and runbooks for backend services.

Atlassian

May 2020 – August 2020

Software Engineer, Backend

Arlington, Virginia

- Led 10 interns to compete an annual ShipIt hackathon and developed a Slack API using Git, Bash, Node.js, and Heroku to motivate employees to volunteer for causes/events sponsored by Atlassian. The integration contains a Leaderboard showing the employees who have volunteered for the most causes/events and recommendations for the best volunteer opportunities based on employee votes and reviews.
- Migrate user provisioning REST API load tests from Gatling, which is written in Scala, to our internal testing tool written in Python to execute 1000+ requests per minute per HTTP method.
- Simulate 1000, 2000, and 5000 users. Test GET, POST, PUT, PATCH, and DELETE types of APIs. Monitor CPU and Memory use.
- Analyze data gathered from load test runs via signalFX dashboards and Splunk logs, provide sound recommendations for performance improvements, and identify bottlenecks of application.
- Improved performance of PATCH API response by 10 times.
- Cached GET API requests to relieve load on the Postgres database and to improve response times.

Google

May 2019 – August 2019

Software Product Sprint Participant, Full Stack

Richmond, Virginia

- Collaborated with a team of peers and a Google software engineer to design and implement a swimming pool rental web application using Java, JavaScript, HTML, and CSS over the course of 10 weeks, leveraging various Google Cloud Platform APIs, including App Engine and Datastore.
- Practiced industry best practices such as: contributing to open source software using Git and GitHub, conducting code reviews with/for teammates, extending an existing codebase, participating in distributed development, designing new components and interfaces and leading them to completion.
- Built a map with a search box that finds all of the swimming pools in a specified city within a chosen country and displays markers for all of the pools returned, with on-click details for each pool using the Google Places API and Google Maps JavaScript API.
- Presented ideas and development plans to senior software engineers and engineering managers at Google Cloud HQ in Sunnyvale, CA.
- Mentored by software engineer on Google Shopping team in Cambridge, MA.

Dominion Energy

May 2018 – August 2018

Associate Programmer Analyst, Full Stack

Richmond, Virginia

- Designed and built an issue and assignment tracking ASP.NET and C application for the Fault Analysis team which standardizes the process of reporting accidents that occur at company substations and managing employees' progress to resolve issues and prevent future problems.
- Coordinated weekly meetings with the team to present project scope, goals, and deliverables to ensure consistency with company strategy and commitments.
- Delivered comprehensive documentation of project development and subsequent revisions to include insights from all stakeholders and ensure that future developers can understand and maintain the application.

Virginia Commonwealth University

Sep 2017 – Dec 2017

Research Assistant, Full Stack

Richmond, Virginia

- Worked 7 nights per week for free while attending full-load of university math, computer science, and physical sciences courses.
- Collaborated with graduate students to develop a web tool for users to quickly identify diseases that influence other diseases.
- Developed color-coded network visualizations using D3.js to visualize connections between specific disease miRNAs.
- Managed large databases that support web applications using SQL and PHP on phpMyAdmin.

Yobbz

May 2017 – Jun 2017

Website Developer, Frontend and UI/UX Design

Arlington, Virginia

- Worked and logged 17-18 hours per weekday for free for a startup company during senior experience which was last couple months of high school.
- Engineered the company's website content and improved its functionality and design using HTML5, CSS, and jQuery.
- Conferred with the company owner to prioritize needs, resolve conflicts, develop content criteria, and choose solutions.
- Reduced team's product development time by creating an interactive mobile application prototype for the developers to reference.

Education

New York University

Jan 2023 – Aug 2023

Introduction to Cyber Security Specialization

New York, NY

Courses: Introduction to Cyber Attacks, Cyber Attack Countermeasures, Real-Time Cyber Threat Detection and Mitigation, Enterprise and Infrastructure Security

Duke University

Jan 2023 – Aug 2023

Building Cloud Computing Solutions at Scale Specialization

Durham, NC

Courses: Cloud Computing Foundations; Cloud Virtualization, Containers and APIs; Cloud Data Engineering; Cloud Machine Learning Engineering and MLOps

Virginia Commonwealth University

Aug 2017 – May 2021

Bachelor of Science in Computer Science

Richmond, Virginia

Some Courses: Java Programming, Data Structures Algorithms, Operating Systems, Advanced Algorithms, Calculus 2, Multivariate Calculus, Linear Algebra, Statistics, Computer Security

freeCodeCamp

July 2017 – Aug 2017

Legacy Responsive Web Design Certification

San Francisco, California

Projects: <https://github.com/sabrinakundu/Free-Code-Camp-Front-End-Projects>