

# DURGA KUNDU

USA Citizen

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## Technical Skills

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**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

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### GasBuddy

May 2023 – Present

*Software Engineer II, Backend/Frontend/Mobile*

*Sunnyvale, CA*

- 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

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### **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>