

SIDDARTH PATEL

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Education

University of Massachusetts, Amherst
Bachelor's in Computer Science

2018

- GPA: (3.5/4.0)
- Coursework: Web Programming, Algorithms and Data Structures, Database Management Systems, Operating Systems, Search Engines, Machine Learning, Natural Language Processing

Experience

IBM

Durham, NC

Software Engineer II

03/2022 - Present

- Data Streaming & Processing: Deployed and managed Apache Flink and Elasticsearch services using custom Golang operators. Designed and implemented a system to replace the Google Flink Operator with the Apache Flink Kubernetes Operator. Implement the new operator and establish it as a data processing platform for big data workloads, enabling its use by Cloud Paks, including Business Automation solutions.
- DevOps & Automation: Set up and maintained CI/CD pipelines with Travis CI to publish IBM products. Automated product validation and delivery using Bash scripting, Jenkins, and GitHub Actions
- Multicloud SaaS Automation: Streamlined onboarding of IBM SaaS solutions on AWS, Azure, and IBM Cloud. Developed automation scripts and tools for SaaS deployment, subscription management, and SRE operations.

Software Engineer I

07/2018 - 03/2022

- Frontend Development: Built Kubernetes UI for IBM Cloud Private using JavaScript, React and Node.js. Utilized Server Side Rendering to reduce initial load time; used redux to store global UI state.
- Backend Development: Designed and implemented a Go Operator to deploy and manage Kubernetes UI resources.
- Containerization & Orchestration: Containerized the application with Docker; added scalability and automated deployments with Kubernetes.

Software Engineering Intern

05/2017 - 08/2017

- Mobile App Development: Built dynamic UI components for a social networking app called IBM connections using React Native, JavaScript, and Node.js.
- Data storage: Interacted with Realm database for user data retrieval and updates.
- UI Testing & Automation: Embedded and configured Appium for cross-platform UI automation; authored comprehensive UI tests.

Technical Skills

Programming languages: JavaScript, Go, GraphQL, Bash, Python, Swift, Java, C++

Data systems: MongoDB, PostgreSQL, Kubernetes, Openshift, Travis CI, Jenkins, Terraform, Kafka, Flink, Prometheus, Grafana, Kibana

Frameworks: Express.js, React, Bootstrap, CocoaPods, Appium, Pandas

Awards

Robin Award, Robin Powered Inc.

2016

- Developed a mobile application integrating Robin Powered beacon technology to connect with nearby devices via Bluetooth. Enabled automatic chat room invitations for users within range, streamlining group formation and attendance tracking. Designed for classroom use to foster connections among classmates on the first day. Achieved recognition by winning the Robin Company's challenge at HackUMass.