SIDDARTH PATEL

✉ siddarthjpatel@gmail.com   📞 4134068458   📍 1112 Tonti Way, Apt 5304, Durham, NC 27703   in siddarthpatel   ⭘ siddarthpatel

EDUCATION

University of Massachusetts Amherst
BS Computer Science 2017
Relevant Coursework: Web Programming, Algorithms, Artificial Intelligence, Machine Learning , NLP

EMPLOYMENT

IBM, *Software Engineer*, Durham, NC   July 2018 - Current
- Work as a full stack engineering with the Platform UI squad to build the Kubernetes UI on IBM Cloud Private
  - Use frontend React framework along with JavaScript and Node.js across Platform UI micro-service
  - Use services like Docker to containerize the application, Kubernetes to automate and scale deployment
  - Use backend Golang to build/manage a go operator to deploy/manage resources for the Platform UI service.
- Work with IBM Common Services to stand up IBM's distribution of Flink and Elastic Search services for data processing/streaming
  - Use backend Golang to manage the life cycle of these applications by deploying the Flink/Elastic operator for streaming events
  - Design architecture to adopt the Apache Flink Kubernetes Operator instead of Google Flink Operator
- Work with IBM Devops squad to build/manage delivery only Travis CI pipeline to publish IBM products
  - Setup a new Travis CI pipeline
  - Use bash scripting to validate, verify and promote IBM products through Travis CI
  - Leverage Jenkins platform and Github actions for automation purposes
- Work with Multicloud SaaS Platform team to automate onboarding of IBM SaaS solutions on hyperscalers like AWS, Azzure and IBM cloud
  - A common platform to enforce all IBM SaaS products planning to deploy on hyperscalers
  - Provide services like SaaS console to manage subscriptions, SRE tools and other tools to simplify deployment
  - Automation scripts to stand up an environment with MCSP services that help IBM SaaS solutions deploy to hyperscalers faster/easily

IBM, *Mobile Software Developer Intern*, Durham, NC   May 2017 - Aug. 2017
- Worked on a social networking service app called IBM Connections in a team of 25 plus people
  - The application uses the React-Native framework along with JavaScript and Node.js
  - Built dynamic UI components with React-Native, interacted with Realm database to fetch and make user updates
  - Embedded and setup Appium: a cross platform UIAutomation test framework in the application and wrote UI tests using it

SKILLS

LANGUAGES: HTML, JavaScript, Swift, Bash Scripting, Golang, C++, Java, Python, MySQL
FRAMEWORKS: Node.js, jQuery, React, React-Native, Bootstrap, CocoaPods, Appium, Pandas, Openshift, OLM, Kafka, Flink

PROJECTS

ShakespeareSearchCompletion   June 2022 - July 2022
- Use JavaScript/React to build an autoTextComplete field from scratch. Shows top words Shakespeare would use based on the Input
- Use node fetch to make a client side api call to api exposed by the backend using flask
- Counted occurrence of each word in Shakespeare.txt and saved results to a local SQLite database
- Created a function to query DB for the top limit words based on a given prefix

ShoppingCart   Oct. 2018 - Nov. 2018
- Build a full stack demo shopping cart app for Kubecon 2018 in Shanghai
- Use React/Javascript on the frontend and Node/Mongo on the backend, containerize app using docker, and deploy it on IBM cloud private using Kubernetes
- Provide Login authentication, scale it using Kubernetes, display the idea of replica sets

FIFA dream team   Apr. 2017 - May 2017
- Use ML techniques such as: outlier detection, anomaly detection and clustering, to build an all start FIFA dream
- Cluster the input data set into relevant groups and then filter out the outliers using anomaly detection
- The result is a FIFA dream team

SoundRoom   Sept. 2016 - Nov. 2016
- Develop a collaborative playlist application in a team of six using Node.js, React, MongoDB, and SoundCloud API
- Build reusable React components to modularize dynamic portions of the front-end code
- Design ER diagrams to model data requirements, and translate model into JSON schema in MongoDB

LoneRunner   July 2016 - Aug. 2016
- Developed a 2D endless running game for iOS using Swift 2, CocoaPods, and Apple's SpriteKit
- Designed minimalistic and consistent UI for the main menu using the CircleMenu CocoaPod
- Garnered over 400+ downloads on the App Store with an average rating of 4 stars

AWARDS

Robin Award, *RobinPowered Software Company*   Sept. 2016
Won an award from RobinPowered for the best use of the Robin API at HackUMass IV, the annual UMass hackathon with over 600 students