

Vikash Deo

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TECHNICAL SKILLS

Languages: Ruby, Python, TypeScript, JavaScript, Spark

Web Technologies: Ruby on Rails, Python Flask, Node JS, React, Redux, React Native, Redis, Angular 2

Databases and Pipeline: SQL, MySQL, PostgreSQL, SQLite, MongoDB, Databricks, PySpark, Kafka, Kinesis

Tools Used: Terraform, AWS, GCP, Jenkins, CircleCI, Docker, Kubernetes, GitHub, Invision, Figma

INDUSTRIAL EXPERIENCE

Senior Software Engineer, OneSignal

June 2021 – Present

- Build features for the client facing application using react with ruby on rails.
- Made the email product a competitive product in the market by adding AB functionality, html editor, draft capability and pre-header functionality.

React JS, Ruby on Rails, Redux, PostgreSQL, gRPC, Redis, Github, CircleCI

Senior Software Engineer, Strong Arm Technologies

Dec 2017 – June 2021

- Acted as a tech lead on various projects for remote developers (nearly 10 team members) working on the web application and mobile application.
- Defined technical architectures and evaluated various design patterns to build a scalable client facing web application used by 10,000+ users.
- Rearchitected the react native/ android application to reduce fatal errors by more than 95%
- Developed UI screens and backend APIs for the Smart Dock (FUSE), a react native/ android application.
- Managed and deployed infrastructure with Terraform to the build backend services.

React JS, React Native, Python, Databricks, Kinesis, Node JS, Sentry, AWS, MySQL, Terraform, Git, PubNub, Jenkins

Software Engineer, Tricon Infotech LLC

Feb 2017 – Nov 2017

- Developed a platform where you can drag and drop widgets to create official documents like newsletters.
- Built and maintained infrastructure to handle continuous deployment for offsite software developers.

React JS, MobX, Express JS, Python, AWS, MongoDB, Github

Research & Development Engineer, Intersection Inc.

Jun 2016 – Dec 2016

- Created an SMS based chatbot to help visitors find their way around the new Hudson Yards neighborhoods in NYC.
- Worked on grocery items identification and localization in a shopping cart for Walmart to reduce checkout time

OpenCV, Python NLTK, TensorFlow, GCP, Twilio, AdaBoost algorithm

INDUSTRIAL AND PERSONAL PROJECTS

Push Notifications to personal website: OneSignal - [Demo](#)

June 2021 – July 2021

A react application to push notifications to another web application (www.vikash.dev) using OneSignal's public API.

Tools Used: React, Typescript, OneSignal Push APIs, AWS

Realtime events streaming: StrongArm Tech

Nov 2020 – Mar 2021

Ingested events from the IOT system into Databricks Delta tables and Big Query using Kinesis data streams.

Tools Used: PySpark, Typescript, Java, AWS, Kinesis, Databricks, Big Query

An online game to kill moving viruses: Passion Project [Play here](#)

May 2020 - June 2020

An online game to kill moving viruses and compete against friends on leaderboard.

Tools Used: React, Redux, Typescript, P5 JS, Python, AWS

External client facing platforms and dashboards: StrongArm Technologies

Mar 2020 - June 2021

Built an athlete roster management platform for clients using micro-service architecture. [DEMO](#)

Created and deployed a dashboard for client onboarding, potential clients and investors to showcase proactive insights and real-time feedback to improve engagement of industrial athletes - [DEMO](#)

Tools Used: React, Redux, Angular 2, Typescript, Highchart JS, Python, AWS

Infrastructure as a code and CI/CD pipeline: StrongArm Technologies

May 2019 - Jan 2020

Wrote terraform code to create, deploy AWS infrastructure and also built Jenkins Pipeline for CI/CD and created data pipeline for data processing.

Tools Used: Python, Databricks, Terraform, Vault, Docker, Jenkins, Github

- Gamify real time safety score for client onboarding: StrongArm Technologies** **Feb 2019 - May 2019**
 Gamified how athletes lift and gave real-time Safety Score. Also, developed a leaderboard to show top athletes.
Tools Used: React JS, React Native, Typescript, MySQL, PubNub, Python
- On Dock engagement for Industrial Athletes, StrongArm Technologies** **Mar 2018 – Jan 2020**
 Front-end and Back-end services for Industrial Athletes to engage with the smart Dock to use FUSE Risk management platform. Helped athletes to understand and increase knowledge on how to be safer in working environment.
Tools Used: React Native, Python, React JS, Typescript, Android, UXCam
- Alexa Skill to give company information, Tricon Infotech LLC - [DEMO](#)** **Jun 2017 – Jul 2017**
 Built an Alexa skill for a hackathon with intents and utterances to act as a receptionist. First prize winner.
Tools Used: Python FlaskAsk, ngrok, React JS, Twilio API
- Object recognition and localization in a shopping cart, Intersection Inc.** **Sep 2016 - Dec 2016**
 Recognized items for customers in shopping cart for a major retail chain to reduce checkout time and eliminate human assistance. Created a front-end for the client to visualize the working and algorithm.
Tools Used: OpenCV, Python, Convolutional Neural Networks, React JS, AdaBoost Algorithm
- NYC Yellow Cab Rides Tip Percentage and Tip Deciding Factor, NYU** **Jan 2016 – May 2016**
 Visualization of NYC Yellow Cabs data, Tip percent and its deciding factor for the year 2014.
Tools Used: MapReduce, D3, Mapbox, AWS (EMR, EC2, S3)

EDUCATION

NYU, Tandon School of Engineering, New York, NY **2016**
 M.S. in Computer Engineering