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# Rishi Raj

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## Employment

**Software Engineer, Intern**  **WhatsBusy**  **May 2020 – Aug 2020**
Merchant Onboarding, Benchmarking Tool (Django, AWS, PostgreSQL)
- Wrote several pipelines using AWS Lambda to automate and support real time calculation of KPI metrics of the restaurants on platform vs comp set, recommendations for restaurant items' prices, and for detecting fake employee names.
- Streamlined the data collection and aggregation process from the POS Systems using Database Loaders in psycopg (PostgreSQL).
- Refactored the dashboard page and decreased loading time by 45%, also created visualisations for the aforementioned metrics.

**Research Assistant - Full Stack**  **Fire Research Lab, NYU**  **Sept 2019 – Present**
Course Catalog App, Course Creation App for Fire Safety (Node/GraphQL/React)
- Overhauled the complete end to end payment ecosystem including wishlist, cart, coupons and support for multi currency/country transactions (on Stripe).
- Crafted interactive, reusable ReactJS components for the course editor (MS PowerPoint like) and developed accessible user interfaces.
- Reduced the deployment bottlenecks of the frontend/backend apps using CircleCI/CD and boosted the SDLC efficiency.

**Software Engineer**  **Kubric**  **May 2018 – May 2019**
Kubric Storage (Smart Asset System)
- Simplified the process for adding new UI filters dynamically to the Asset App by composing a node module which increased code coverage by 60%.
- Enriched the UI experience by adding editing and transformation capabilities and creating HTML Canvas playgrounds in ReactJS.
- Increased the upload throughput by building a batched queue in the pipeline and provided error and progress reporting through APIs.
Kubric Player (kubric-player.surge.sh)
- Built a light-weight, embeddable interactive HTML5 video player SDK with DASH support for e-commerce product videos to boost online shopping experience for Kubric's clients.

**Google Summer of Code Intern**  **Google Summer of Code, FOSSASIA**  **May 2017 – Aug 2017**
SUSI.AI Smart Chat Assistant (https://tinyurl.com/rsf3czn)
- Implemented internationalization, user authentication, theme switching capabilities and a feedback system in ReactJS for the Chat App for an immersive experience.
- Enhanced interactivity with the assistant by enabling voice input and output capabilities.
SUSI Skills (https://susi.ai - Skills for Chat Assistant)
- Created an easy to access skill discovery page for the chat assistant similar to Alexa Skills.
- Improved the bundle size of the app and the build time by 70% using code splitting and gzip compression provided by webpack.

## Education

- **M.S. in Computer Engineering, New York University.**  **Sept 2019 – May 2021**
- **B.Tech. in Computer Science, VIT University, India.**  **July 2014 – April 2018**

## Projects

- **Spam Filters** (2020). Naive Bayes and Adversarial Classification based spam filters (98% accuracy) demonstrating attack and defense strategies. Python (numpy, pandas, sklearn). https://github.com/rishiraj824/MachineLearningAlgorithms
- **Dining Bot** (2020). Highly scalable cloud service for location based restaurant suggestions from Yelp API through SMS. AWS Lambda, Cloudwatch, Elastic Search, SNS and SQS. https://github.com/rishiraj824/Restaurant-ChatBot
- **Heddler** (2020). Smart and dynamic album creation tool for digital studios and making portfolios. AWS S3, NextJS, MongoDB. https://heddler.com

## Additional Experience and Awards

- **Google Developer Groups Organizer (2016-18):** Organized Hackathons, tech talks, and contributed to and moderated various open source projects.
- **Google Summer of Code Mentor (Summer 2018)** Ensured daily SCRUM Reports, performed code reviews.
- **CodeHeat Finalist (2017)** for Loklak Search (Advanced Twitter Search Engine) – Top 10 contributors amongst 443 participants worldwide, invited to FOSSASIA Tech Summit, Singapore for the award. Angular 2.

## Languages and Technologies

- Java; Python; Javascript; C++; C; SQL;
- NodeJS; GraphQL/Apollo/Relay; Numpy; Pandas; Sklearn; MongoDB; Django; ReactJS; Angular.js(2/4); React Native; Jest/Enzyme; Redis; PosgreSQL; Serverless; AWS