RISHI RAJ
Software Developer

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EDUCATION

Sep 19 — May 21	**New York University**	*Masters of Science in Computer Engineering*
Jul 14 — Apr 18	**VIT University, Vellore**	*CGPA - 8.3/10, Bachelor of Technology in Computer Science*

SKILLS

Expert: HTML, CSS, JavaScript (ES6/TypeScript), ReactJS/Redux, React Native, Jest/Enzyme, NodeJS/ExpressJS, MongoDB, GraphQL/Apollo/Relay, Git, **Familiar:** Angular.js(2/4), C/C++, Python, Django, GCP, AWS S3

EXPERIENCE

Sept 19 — Now **Graduate Research Assistant, Fire Research, NYU Tandon**
- Overseeing the Course Catalog App called "Alive"(in Beta) and Backend for Prof. Prabodh Panindre from Mech. and Aerospace Department in collaboration with Fire Department of New York.
- Integrated end to end Stripe Payment Gateway for buying courses and refactored the codebase on the client side.
- Implemented OAuth using Facebook, Google's Expo SDKs to improve the onboarding experience.

`React/React Native, NodeJS, MongoDB, GraphQL/Relay/Apollo`

May 18 — Jun 19 **Software Developer, Kubric**
- UI Architect for Kubric's Media Management Frontend (Drive, Dropbox like capabilities), created playgrounds in fabric.js and native HTML Canvas for performing transformations like crop, rotate, color filter on the browser.
- Increased the time for Redux store updates by implementing the Re-ducks pattern for Kubric Web Platform as the store size was huge.
- Reduced the time to add/remove filters in UI to seconds by driving all the UI filters and its backend connection through a JSON configuration.
- Converted redundant React components to various useful HOCs and Mixins for binding lower level UI components with reusable functionalities.
- Generalised the client codebase for adding integrations of User Assets and Media from Google Drive, Cloudinary and Shutterstock.
- Implemented the User-Workspace Interface to allow many to one relationship between a user and his workspaces and added support for managing roles and teams.
- Demoed an embeddable HTML5 video player SDK as a POC with support for DASH for the various video outputs which the Kubric Video system produced. The player could overlay interactive elements to create an interactive experience for shoppable ad videos.

`PreactJS, Redux, MongoDB, NodeJS/ExpressJS, GCP Console and Storage`

Summer 17 **Student Developer, Google Summer of Code · FOSSASIA**
- Instigated the SUSI Chat App making use of the Facebook's Flux architecture pattern over the SUSI.AI Server API.
- Added voice i/o support using Google's Speech to Text and Text to Speech APIs.
- Implemented Internationalization, Authentication, theming capabilities and a feedback system for the Chat App.
- Improved the workflow by integrating ESLint and Jest in the build environment and Travis CI for automatic deployments.
- Reduced the bundle size of the SUSI Skills Web App and the build time. This also helped in decreasing the load time of the App. View Full Project Report

`ReactJS, Flux, Kubernetes, Jest, Travis CI`

SOFTWARE PROJECTS

Jul 19 **Coculture**
An interview report generator and analyser, to be used for recording the interview, detecting important keywords said during the interview, and comparing the applicants for that particular job interview position. — *Python, ReactJS, Watson API*

Dec 17 **Innovation Award, Provectus (Finackathon)**
Proposed an end to end solution for predicting insurance score report based on health habits, calorie logging, voice and facial analytics. Won the Award for the most innovative idea in the Health Reporting and Management Category. — *Python, ReactJS*

Feb 17 **Finalist, Loklak Search Project (CodeHeat.org)**
Contributed to this Project to implement Tweets Frequency Widget in the Loklak Search Engine using the Loklak Server APIs, added support for Search Suggestions, was also among the top 10 contributors amongst 443 participants worldwide, in this online Open Source Coding Contest organized by *FOSSASIA*. — *Angular 2*

LEADERSHIP

2015-2018 **Organizer, GDG-VIT (now DSC VIT)**
Supervised Projects and worked with a team of 50+ members and successfully launched trending applications like MyFFCS, MyVIT, gave talks on Open Source Contribution, organised meetups and conducted GDG-Devfest across the University.

Summer 2018 **Google Summer of Code Mentor, FOSSASIA**
Performed Code Reviews and helped in brainstorming across SUSI.AI Projects. Ensured daily SCRUM reports and reviewed blog posts written by students.