

# NIKHIL RAINA

## Contact

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Passionate about algorithmic optimisation, data structures and data analysis. I thrive in a "hands-on-and-test" environment. Challenges and new tech excite me. In my free time, I like to watch anime, perform in and for RIT Bhangra, cook and exercise. Looking for a Software Engineering position in the development and testing of software products and computer systems  
Available from May 2021.

## Skills

### PROGRAMMING LANGUAGE:

Java, Python, JavaScript, TypeScript, MIPS, C, SQL

### SOFTWARE:

Charles Proxy, Postman, CouchDB, Jira, MATLAB, Docker, SourceTree, Version Control, React Native, PostgreSQL

### OTHER:

Agile, Waterfall, Leadership, Teamwork, Public Speaking, Pandas, Matplotlib, NoSQL

## Courses

Analysis of Algorithms, Principles of Data Management and Data Mining, Software Testing, Intro to Artificial Intelligence, Programming language Concepts, Intro to Computer Vision, Concepts of Parallel and Distributed Systems, Engineering of Software Subsystems, Concepts of Computer Systems, Advanced Linear Algebra, Game Theory, Mathematical Models of Software, Mechanics of Programming, Intro to Cryptography, Intro to Computer Graphics

## Education

Rochester Institute of Technology

BS Computer Science 2021

Double Minor: Mathematics and Software Engineering.

RIT Scholarship

Dean's List - Fall 2020

Aug. 2016 to Current

## Employment

### Skillz Inc.

#### SDK Co-Op

JIRA Atlassian was used for creating and planning features for the Skillz Platform. Worked with Typescript and Charles Proxy for code translation from iOS and Android to React Native (Hybrid). Used Jenkins to deploy multiple builds for testing purposes. Implemented 2048 game on Skillz Platform. Used Jest for testing and achieved 83.4% test coverage on assigned new features with an overall increase of 3% test coverage including old features.

San Francisco, California

Jan. 2020 to June 2020

### Health Care Original Inc.

#### Software Engineering Co-Op

Used NoSQL to reduce document space occupancy by 30% in the CouchDB database. Worked with NodeJS and Python to create new APIs while updating the server-side. Created a CLI to help server-side engineers with creating dummy data, handling API calls and searching through the CouchDB database. Used Ionic Framework to introduce new health trackers in the app: Breathing Rate and Medicine reminder. Improved the UI and functioning of the app by introducing extra features to make it user-friendly.

Rochester, New York

Jan. 2019 to Aug. 2019

### SaltyCloud

#### Python Developer Intern

Used JS with Django to create an executive summary in ISORA reducing 70% of time lost in data collection and consolidation. Used Pandas and Matplotlib to create Heat Maps for a visual representation of surveys and feedback. Used Python to clean and streamline data from the DB to the frontend developers thus increasing nearly 21% of data transmission speed.

Austin, Texas

June 2018 to Aug. 2018

### Rochester Institute of Technology

#### Student Lab Instructor

Grader and TA for CSCI-142, which included implementation and analysis of Data-Structures and critical thinking on concepts like Dijkstra's shortest path, DFS, BFS, and backtracking. Conducted office hours in the Tutoring centre and was selected among the top instructors.

Rochester, New York

Aug. 2018 to Jan. 2019

## Projects

### info.me

React Native App that aims to create and edit "self-portfolios" on the go by adding an extensible amount of customization in order to personalize the experience of showing yourself off. Used MySQL for data management and Google's Firebase for CI/CD.

May 2020 to Current

### Cookin Time

A collaborative project written in React Native to enrich the food preparation experience of users. Offers ways to cook food with only the ingredients available in the user's pantry. Cooked dishes can get published for a dividend. Used AWS for data management and BeautifulSoup to scrape websites.

Apr. 2020 to Current

### Real Estate Database

CLI group project written in Java using Real Estate Data from a PSQL database. It offers basic functions like Select, Delete, Insert and Update by making the experience highly interactive and engaging.

Aug. 2018 to Dec. 2018

### Path Builder

Team of two that designed the backend of a bot in Java to solve a grid game. Implemented difficulties by using randomisation, Dijkstra's algorithm and Breadth-First Search to identify the bot's next best move.

Jan. 2017 to Apr. 2017

## Activities

RIT Tiger Bhangra · Member

Sept. 2018 to Current

Oasis · Vice President

Sept. 2017 to Dec. 2018

Habitat for Humanity · Vice President

Jan. 2015 to Jan. 2016