

# Rasesh Kumar Rout

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## SKILLS

### PROGRAMMING

Java, C++

### WEB PROGRAMMING

JavaScript (React, Node, Angular)

HTML, CSS

### DATABASE

Oracle, Cassandra(NoSQL), AWS S3

### TOOLS AND IDE

Netbeans, MATLAB

Android Studio

## LINKS

### WEBSITE

<https://shaunfrost.github.io/portfolio/>

### LINKEDIN

<https://linkedin.com/in/raseshrout>

### GITHUB

<https://github.com/ShawnFrost>

## EDUCATION

### PENNSYLVANIA STATE UNIVERSITY

2019-2021

#### COURSEWORK

Algorithm Analysis and Design

Operating System Design

Computer Vision

Compiler Construction

Pattern Recognition and Machine Learning

### NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

#### BACHELORS OF TECHNOLOGY

2012-2016

#### COURSEWORK

Data Structures and Algorithms

Database Management Systems

Compiler Design

Software Engineering

Computer Networks

## INTERESTS

### DRAWING

### FOOTBALL

### CRAFTS

### MUSICAL INSTRUMENTS

## EXPERIENCE

### FULL STACK ENGINEER | HOMESOME

SEP 2021 – AUG 2022 | San Francisco, CA

- Enabled ~ 25 underrepresented grocery stores with zero to low online presence to provide their customers with new shopping experience.
- Developed new features for shopping platform including chat-based communication that enabled stores to connect with their customers.
- Provided on-call support for root cause analysis of issues impacting customer revenue.

### GRADUATE TEACHING ASSISTANT | PENN STATE

AUG 2020 – MAY 2021 | University Park, PA

- Teaching Assistant for Discrete Mathematics.
- Created assignments, graded exams and conducted recitation sessions for a section of ~ 250 undergraduate students.

### MEMBER OF TECHNICAL STAFF - II | VERIZON INDIA

NOV 2017 – JUL 2019 | Chennai, India

- Developed a rule based automation tool that converts a Weblogic application, based on pre-defined rules, into open source Wildfly compatible eliminating the costs of Weblogic server maintenance.
- Remodelled some critical customer facing systems in Cassandra (NoSQL) from relational Oracle Database in collaboration with various shareholder teams reducing SLAs of various functionalities in the Ordering system by ~ 50%.
- Converted existing spring web applications into microservices to achieve dynamic scaling and faster release cycles.

### SOFTWARE ENGINEER | VERIZON INDIA

JUL 2016 – OCT 2017 | Chennai, India

- Built a dashboard for representing average response times of various services used by critical client systems, eliminating the bulk email reports sent on hourly basis and providing an one stop solution for monitoring.

### SOFTWARE DEVELOPMENT INTERN | MEBELKART TECHNOLOGIES

MAY 2015 – JUL 2015 | Bangalore, India

- Developed an e-commerce android application for a furniture retail start-up.
- Designed the User Interfaces and wrote APIs for efficient data retrieval giving the customers a well-organized marketplace for furniture.

## PROJECTS

### AUGMENTED REALITY(AR) VIEWER

Developed an AR viewer that displays artificial objects overlaid on images of a real 3D scene using point cloud generated by COLMAP. Stack: MATLAB, COLMAP

### CLASSIFICATION OF URBAN SCENES

Classified Google Urban Scenes dataset images into the corresponding city. Approaches: Neural Net and Bag of Visual words. Stack: MATLAB

### PARALLEL FILE SYSTEM

Implemented a simple Parallel File System which provides access to file data for parallel applications which will be striped across multiple file servers. Stack: C++, C

### LOOP INFORMATION PASS

Created a compiler pass that analyzes Loop Information in a program. Stack: C++, C, LLVM

### ANIME CHARACTER HANGMAN

Created an anime character version of Hangman. Stack: React.js, HTML, CSS