Rasesh Kumar Rout

raseshrout@gmail.com | +91 9439344276 | https://raseshrout.dev | India

SKILLS

PROGRAMMING

Javascript, Typescript, C++, Python, Java

WEB

React, Node, Angular, SocketIO HTML, CSS

DATABASE

Cassandra(NoSQL), MongoDB, Oracle, AWS S3

TOOLS AND IDE

Visual Studio, Netbeans, MATLAB

LINKS

WEBSITE

https://www.raseshrout.dev

LINKEDIN

https://linkedin.com/in/raseshrout

GITHUB

https://github.com/ShaunFrost

EDUCATION

NATIONAL INSTITUTE OF TECHNOLOGY, ROURKELA

Bachelor of Technology 2012-2016

Coursework

Data Structures and Algorithms
Database Management Systems
Compiler Design
Software Engineering
Computer Networks

PENNSYLVANIA STATE UNIVERSITY

2019-2021

Coursework

Algorithm Analysis and Design Operating System Design Computer Vision Compiler Construction

Pattern Recognition and Machine Learning

INTERESTS

Fullstack Development, Backend Development, Software Development

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

• Created assignments, graded exams and conducted recitation sessions for a section of \sim 250 undergraduate students for Discrete Mathematics.

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 $\sim 50\%$.
- 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

NEPTUNE

Developed an offline cross-platform application that helps manage side projects along with markdown and drawing board support. Stack: ElectronJS, React, Typescript, Tailwind

MULTIPLAYER WORDLE

Developed a multi player (1v1) version of Wordle game(client-server). Stack: React, Socket IO, Node JS, Express

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

RESUME HELPER

Developed a simple model to help find keywords related to the job description using Spacy library and building a job scrapper for Linkedin. Stack: Python, NLP, SpaCY

CREATE PROJECT SKELETON

A NPM library that helps scaffold empty react/typescript projects and other templates. No need to delete extra stuff. Stack: Node, NPM

LOOP INFORMATION PASS

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