

Rasesh Kumar Rout

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SKILLS

PROGRAMMING

Java, C++, Python

WEB PROGRAMMING

React and JavaScript(Basic)

HTML, CSS

DATA BASE

Oracle, Cassandra(NoSQL)

TOOLS AND IDE

Netbeans, MATLAB

Android Studio

INTERESTS

Software Development

LINKS

WEBSITE

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

LINKEDIN

<https://www.linkedin.com/in/rasesh-kumar-rout-97508766>

GITHUB

<https://github.com/ShawnFrost>

EDUCATION

MASTER OF SCIENCE IN COMPUTER SCIENCE AND ENGINEERING

PENN STATE UNIVERSITY

EXPECTED AUG 2021 | GPA OF 3.65

BACHELOR OF TECHNOLOGY IN COMPUTER SCIENCE AND ENGINEERING

NATIONAL INSTITUTE OF

TECHNOLOGY, ROURKELA

GRADUATED 2016

COURSEWORK

GRADUATE

Algorithm Analysis and Design

Operating System Design

Computer Vision

Compiler Construction

Fund. of Comp. Architecture

Large-Scale Machine Learning

UNDERGRADUATE

Data Structures and Algorithms

Database Management Systems

Compiler Design

Software Engineering

Computer Networks

EXPERIENCE

GRADUATE TEACHING ASSISTANT | PENN STATE

AUG 2020 – MAY 2021 | University Park, PA

- Teaching Assistant for Discrete Mathematics(CMPSC 360). Responsibilities included creating assignments, grading and taking recitation sessions.

MEMBER OF TECHNICAL STAFF - II | VERIZON INDIA

NOV 2017 – JUL 2019 | Chennai, India

- Worked on migrating existing web applications from Weblogic to open source Wildfly server. Developed a rule based automation tool that converts a Weblogic application based on pre-defined rules and makes them Wildfly compatible reducing costs of weblogic server maintainance.
- Remodeled some critical customer facing systems in Cassandra (NoSQL) from conventional Oracle Database by working together with various client system teams reducing SLAs of various functionalities in the Ordering system.
- Built tools to make the transfer of bulk data to the new model smoother and efficient.
- Converted existing spring web applications to spring boot adhering to microservices architecture.

SOFTWARE ENGINEER | VERIZON INDIA

JUL 2016 – OCT 2017 | Chennai, India

- Built a dashboard on for representing average response times of various services used by critical client systems for monitoring purposes.
- Built a caching mechanism, for faster loading of the graph representation which eliminated the bulk email reports sent on hourly basis to whole team accumulating details at a single stop.

SOFTWARE DEVELOPMENT INTERN | MEBELKART TECHNOLOGIES PVT. LTD.

MAY 2015 – JUL 2015 | Bangalore, India

- Developed an e-commerce android application for a furniture retail start-up. As part of the development team, we designed the User Interfaces as well as 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

PATH EXPRESSIONS SYNCHRONIZER

Implemented synchronization procedures for path expressions solving Reader-Writers, One-Slot Buffer and Child Care problems. Stack: C

LOOP INFORMATION PASS

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

ANIME CHARACTER HANGMAN

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