

Rogen George

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Education

Oregon State University

September 2018 – Present

Master's in Computer Science – GPA 3.8/4.0

Thesis – Compositional Data Analysis (Advisor: Dr. Weng Keen Wong)

Academic Projects

- **Key point Detection and Image Matching using PyTorch:** Developed and Trained a Convolutional Neural Network to compute features of SIFT key points and find similar images.
- **Atari Game Modelling and Anime Face generation:** Implemented an Auto Regressive Network using PyTorch to model Atari game screens and generate new Anime faces.
- **Trained Reinforcement Learning Agent to find Optimal Path:** Applied Reinforcement Learning Algorithm Deep Q Networks (DQN) on Custom Cartpole Environment to maximize the score obtained.

Coursework: Algorithms, Machine Learning, Computer Vision, Probabilistic Graphical Models, Reinforcement Learning

Mahatma Gandhi University

June 2010 – May 2014

Bachelor of Technology, Computer Science

Academic Projects

- **Implemented Source Routing on Network on Chip (NoC) :** reduced the time delay for packet routing by 58% and decreased the speed gap between processor and the network. Coded in C++ using BookSim simulator.
- **Created RFID based attendance management system:** Implemented in C# using Microsoft SQL Server.

Work Experience

Senior Systems Engineer, Infosys

June 2014 – August 2018

- **Implementation of Redis Cache for world's biggest Trivia Quiz Game Application:** Reduced the server load by more than 60% and improved data fetch times for the Scala server for a mobile quiz game application, which has 10 million users and more than 10 thousand concurrent players.
- **Developed the Tournament rewards feature for the Quiz Game Application:** Handled the rewarding of more than 50 thousand active players at the end of online tournaments, which increased the revenue of the game by 5% and the number of users by 11%. The Rewards feature was implemented using Python flask micro framework.
- **Created 'No Ads Subscription' feature for the Quiz game application:** Allowed users to block the ads in the game, which increased the game revenue by 3%. Implemented using Java Grizzly framework.
- **Automated the UI tests using Python Raft API:** Reduced the testing effort by 20% for the store management application of one of the biggest American technology companies based in Silicon Valley.
- **Developed a Web Application using Angular JS and jQuery:** Helped users of one of the biggest American Telecom providers to view the IoT devices they have purchased and install them on their own.
- **Involved in the development of Personal Emergency Android application:** Helped users of a reputed American telecom provider to stream their videos to the control room in the case of an emergency.

Skills

- **Programming Languages:** Python, Java (Expert) , UNIX Shell scripting, C++, Scala, C, JavaScript (Competent)
- **Databases:** Redis, Postgresql, Oracle (Expert) MySQL, Microsoft SQL Server (Competent)
- **Web Development:** HTML, CSS, SASS, jQuery, Angular JS
- **DevOps:** Git, Jenkins, AWS, Docker, Elastic Search.

Achievements

- Marketing Coordinator for the College Technical Fest 'Teckshetra' which had a participation of 5000 students.
- Recipient of 'Insta Award for Outstanding Performance' at Infosys for receiving client appreciation for work.