

DAIVIK NEMA

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daiviknema.github.io

WORK EXPERIENCE

Senior Member Technical

Jun 2019 – Present

D.E. Shaw & Co.

Hyderabad, India

- **Developed, tested and deployed end-to-end flows** to create and issue various payroll-related documents to employees of the firm. This helped reduce Payroll team man-hours spent on creating those documents manually.
- **Identified existing issues** with Authorization scheme being used in Payroll applications. **Improved security and scalability by redesigning the roles and permissions** being used in the system; and updating all exposed endpoints.
- **Built a User Emulation feature** that provided Admins the ability to instantly assume all access permissions granted to any user of the application.
- **Resolved critical ops issues** and helped maintain high availability of Payroll Applications for Payroll team members as well as employees of the firm.
- **Mentored junior developers** and **handled technical onboarding** of new hires independently. Also participated in hiring and **interviewed potential MT and SMT candidates**.

Java 8

Spring MVC

React/Redux

MS SQL Server

Software Developer

Jul 2018 – Jun 2019

OYO Rooms

Gurgaon, India

- Built new features and implemented business logic changes in the automated reconciliation of "Smart"-tier OYO partner hotels. This included **several workflows which consumed and processed data of 20,000+ OYO partner hotels**.
- Responsible for writing, reviewing and maintaining production grade code for OYO's legacy finance software platform.
- **Participated in hiring at OYO**. Conducted interviews of potential SDE hires

Ruby on Rails

Java 8

Spring Boot

AWS

PostgreSQL

Intern

Jan 2018 – Jun 2018

IBM India Software Labs

Bengaluru, India

- Worked on an IoT enabled solution that monitors energy consumption in large commercial buildings and complexes such as retail stores, office buildings, shopping malls etc
- Helped dockerize the deployment process; wrote several Python scripts to integrate various components of the system.

Docker

Python

Summer Intern

May 2016 – Jul 2016

CEERI, Pilani

Rajasthan, India

- As part of a project on Brain Computer Interfaces, I was tasked with performing feature extraction and classification EEG signals using Principal Components Analysis and Convolutional Neural Networks.

EDUCATION

B.E. (Hons) Computer Science

Birla Institute of Technology & Science, Pilani

Aug 2014 – Jul 2018

CGPA: 7.80

Rajasthan, India

Maharashtra State Board of Higher Secondary Education

Gaurav High School & Junior College

Jul 2012 – Jul 2014

Score: 86.46 %

Navi Mumbai, India

Central Board of Secondary Education

Delhi Public School

Jul 2010 – Jul 2012

Score: 92 %

Navi Mumbai, India

PROJECTS

Personal Website & Blog

Built a static website using front-end frameworks GatsbyJS and React to host a resume-on-the-web as well as a personal blog. This project uses the popular Material-UI component library; and is built keeping Responsive Web Design principles in mind. Also set up a CircleCI pipeline to automate builds and deployments

github.com/daiviknema/daiviknema.github.io

daiviknema.github.io

Ground-up LeNet Implementation

Implemented popular convolutional net architecture, LeNet, in C++ without the use of any non-standard libraries. The model was trained on Kaggle Digit Recognition dataset and achieved accuracy of 0.97

github.com/daiviknema/cpp-cnn

daiviknema.github.io/blog/cpp-convnet

Semantic Segmentation using Convnets

Implemented "Fully Convolutional Neural Network" architecture for Semantic Segmentation of RGB images. Implementation was done using Tensorflow deep learning library

github.com/daiviknema/fcn

daiviknema.github.io/blog/fcn

ACHIEVEMENTS

- **Teaching Assistant, Data Structures and Algorithms course:** Supervised lab sections and helped design coding assignments for Computer Science undergraduates at BITS, Pilani.
- **ACM-ICPC 2015, 85th rank out of over 1000 participating teams**
- Final Shortlist for **Aditya Birla Scholarship:** awarded only to students with top scores in various engineering entrance examinations in India
- **JEE Advanced 2014, All India Rank 2605:** Approximately 1,300,000 students appeared for JEE in 2014
- **BITSAT 2014, Scored 416 out of a maximum possible 450:** Out of approximately 150,000 students that attempt BITSAT every year, only 256 scored higher than 400 in 2014

TECHNICAL SKILLS

Programming Languages:

Java

JavaScript/ES6

C/C++

Python

Web & Database Technologies:

Spring/Spring Boot

RoR

ReactJS

GatsbyJS

PostgreSQL

MS SQL Server

Other tools/languages:

CircleCI

BASH/Linux CLI

Git

Docker