DAIVIK NEMA

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WORK EXPERIENCE

Senior Member Technical — D.E. Shaw & Co.
📅 Jun 2019 – Present   📍 Hyderabad, India

- Primarily responsible for developing and maintaining the complete stack of payroll processing applications internal to DE Shaw. I actively participated in all stages of SDLC - right from **requirement gathering and planning to design and development; testing; release and resolving operational issues**.
- One of the major projects that I handled largely on my own was the **Auth Revamp of Payroll Applications**.
- **Mentored junior developers** and new hires.
- **Interviewed potential MT and SMT hires** for D.E. Shaw.

`Java 8` `Spring MVC` `React/Redux` `MS SQL Server`

Software Developer — OYO Rooms
📅 Jul 2018 – Jun 2019   📍 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 — IBM India Software Labs
📅 Jan 2018 – Jun 2018   📍 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 — CEERI, Pilani
📅 May 2016 – Jul 2016   📍 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   🎓 CGPA: 7.80
📅 Aug 2014 – Jul 2018   📍 Rajasthan, India

Maharashtra State Board of Higher Secondary Education
Gaurav High School & Junior College   🎓 Score: 86.46 %
📅 Jul 2012 – Jul 2014   📍 Navi Mumbai, India

Central Board of Secondary Education
Delhi Public School   🎓 Score: 92 %
📅 Jul 2010 – Jul 2012   📍 Navi Mumbai, India

PROJECTS

Semantic Segmentation using Convnets
Implementation of the "Fully Convolutional Neural Network" architecture proposed by Long, Shelhamer and Darrell for Semantic Segmentation of RGB images. Implementation was done using Tensorflow deep learning library

⌂ github.com/daiviknema/fcn
% daiviknema.github.io/blog/fcn

Ground-up LeNet Implementation
Implementation of popular convolutional net architecture LeNet in C++ without 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

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 adheres to latest ES6/React principles. Also set up a CircleCI pipeline to automate builds and deployments

⌂ github.com/daiviknema/daiviknema.github.io
% daiviknema.github.io

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`