

Hemant Palavali

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EDUCATION

NEW YORK UNIVERSITY

January 2021 – Present // New York, USA

Master of Science in Computer Science

Coursework: Operating System, Database Systems, Fundamental Algorithms

JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY

August 2014 – May 2018 // Hyderabad, India

Bachelor of Technology in Computer Science & Engineering

Coursework: Advanced Data Structures, Distributed Systems, Artificial Intelligence

SKILLS

Programming Languages: Python, Java, JavaScript, TypeScript, HTML, C++

Databases: MySQL, MongoDB, CouchDB, PostgreSQL

Libraries and Frameworks: Node, Express, React, Next.js, d3.js

Tools and Platforms: Git, Netlify, Heroku, Docker, AWS, Firebase, Algolia, Webpack

Testing Libraries: Chai, Mocha, Sinon, pytest

RELEVANT EXPERIENCE

Graduate Teaching Assistant @ NEW YORK UNIVERSITY

Jan 2021 – Present // New York, USA

- Teaching assistant for the undergraduate course in Agile Software Development and DevOps and graduate course in Python and Fundamentals of Software Development
- Held office hours and tutored students every week for the entire semester
- Also responsible for reviewing project demos of the student project, grading and feedback

Full Stack Engineer @ SPRINGROLE

October 2019 – December 2020 // Bangalore, India

- Built social interaction games and engagement features inside enterprise communication app Slack. Used by over 200k users today, built using **React**, **Redux**, **Node**, facilitated via **Slack APIs**, and hosted on AWS using **S3**, **ECS**, **CodePipeline**, and a dedicated **Redis** server. Also developed the payment infrastructure using **stripe**
- Designed architecture and built **REST APIs** for a dating app to handle media, user engagement functionalities such as liking and disliking, notifications to all the mobile devices on various event triggers using TypeScript, Node.js, and **Python**. Decreased the notification delivery time by 80% by moving to notification on the event system instead of using a cron-scheduler
- Planned and developed a **Node.js** application to monitor subscriptions and renewals of a video streaming application. Built REST APIs to utilize third-party services (appsflyer & impact) to track revenue and decide the payouts of content creators and comedians

Full Stack Developer Intern @ SOAL

January 2019 – August 2019 // Hyderabad, India

- Worked on building a **recommender system** for a student portal application using **Tensorflow.js**, Node.js and React
- The systems core functionality recommended a student's strong and lacking areas based upon various assessments and also provide student partner recommendations for pair programming exercises

Analytics Intern @ TECH MAHINDRA

July 2018 – Dec 2018 // Hyderabad, India

- Implemented a system to automate the task of creating reports on PowerPoint for the GE support team by extracting the data directly from the ticket logs, processing the data and visualizing the data using **pandas** and **ggplot**
 - This project is saving over 70% man-hours previously invested on the job
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PROJECTS

MEDSAFE

- Built a medical data storage and viewing application using React and Node.
- The key feature of this application is to give authorized medical personnel access to a patient's medical records in case of exigency and contain the exacerbation of patient's complications

STUDENT PERFORMANCE PREDICTION SYSTEM

- Developed a student performance prediction cum warning system aimed at alerting a student along with the teacher in case a student shows the potential of failing a particular class
- Used Naïve Bayes Classifier and Support Vector Machine for classification of data and achieved an accuracy of prediction of over 84%