

# Saumitra Pathak

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## EDUCATION

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### Vellore Institute of Technology

*Bachelor of Technology in Computer Science and Engineering, 8.85/10 CGPA*

Vellore, Tamil Nadu, India

*Jul. 2019 – Jul 2023*

### Shrishti Schools

*Science with Computer Science, 86.8 % Higher Secondary*

Vellore, Tamil Nadu, India

*Apr. 2017 – May 2019*

## EXPERIENCE

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### Research and Development Intern

*Hewlett Packard Enterprise*

Jan 2023 – July 2023

*Bengaluru, Karnataka, India*

- Worked with the OSE++ Team in HPC Integrated System Testing Department.
- The team tests various operating systems such as **RHEL**, **SLES**, **OEL**, **VMWare** and **Windows** on HPE Superdome Flex servers.
- Built a web app which automates OS installations on these machines.
- Built using **React.js**, **Express.js**, **Node.js**, **Couchbase** and also worked with **Python Scripting** and **Linux**.

## PROJECTS

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### The Seamless Beta OS Enablement Solution | *JavaScript, React.js, Express.js, Node.js*

Jan 2023 – Jul 2023

- A web app that automates OS installations on HPE SuperDome Flex servers.
- This was manual before and monotonous.
- The use of **QCOW2 images** and **Ironic Servers** reduced **Linux** installations from **45 mins** to **20 mins** and **Windows** from **75 mins** to **40 mins**.
- **Python** scripts were used to automate the OS Installation which is used with **Jenkins**.
- Web-App Designed using **Figma**.
- **React** is used for the frontend of the web app, this included a sign-in page and a dashboard page with various tools and forms for OS Deployment.
- **Express** is used for the backend of the web app, this included integration with Jenkins in order to run jobs based on form data and saving user deployment status data in **Couchbase** buckets.

### K Dominant Colors | *Python* | [Source Code](#)

June 2022

- This project extracts the most dominant 'K' colours using **K-Means Clustering** implemented using **Python**.
- The objective of this project is Image Segmentation. Segmentation partitions an image into regions having similar visual appearances corresponding to parts of objects.
- This idea of Image Segmentation could be used in Color Palette Generation, Color Compression and Image Analysis and Visualization.

### UrbanHabitats | *React.js* | [Source Code](#) | [Demo](#)

July 2023 - present

- UrbanHabitats is a website that is used to display the best properties in the market.
- Frontend Built purely using **React.js**.

## TECHNICAL SKILLS

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**Languages:** JavaScript, C++, Python

**Frameworks:** React.js, Node.js, Express.js

**Developer Tools:** Git, AWS, Docker

## CERTIFICATIONS

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- AWS Certified Cloud Practitioner
- Python for Data Science, AI & Development
- Responsive Web Design
- Tools for Data Science