



SUMMARY

- Knowledge in development of centralized web applications using **Python3, Django, HTML5, CSS, SCSS, JavaScript, jQuery, Bootstrap 4, DOM (Document Object Model), REST API's**.
- Intermediate knowledge in **Java, C++**.
- Strong knowledge and course experience in different phases of **Software Development Life cycle (SDLC)** including Requirements, Design, Implementation and Testing during the development of software applications.
- Known IDE's – **Eclipse, PyCharm, Jupyter Notebook, Spyder, Visual Studio**.
- Experience in writing smart contracts using **Solidity**.
- Extensive knowledge in development of decentralized applications using **Ethereum development tools, React and Web3**.
- Strong knowledge in Data Science concepts –
 - **Data Manipulation** using **Python, Pandas** data analysis library and **MySQL**.
 - **Importing and Cleaning Data** using **Python**.
 - **Visualizing Data** using **Matplotlib, Seaborn, Bokeh, D3.js** and **GoogleCharts(JavaScript)**.
 - **Statistical Inference** such as **Parameter Estimation** and **Hypothesis Testing** using **Python**.
 - **Deep Learning** fundamentals using **TensorFlow** and **Keras**.
- Experienced in using both **Linux** and **Windows**.
- Experienced in using Version Control systems like **Git, Bitbucket**.

EDUCATIONAL CREDENTIALS

MASTER OF SCIENCE (M.S.) IN **COMPUTER SCIENCE**, GRADUATED: MAY 2019

*California State University, Long Beach, CA
Specializing in **Advanced Systems**.*

BACHELOR OF TECHNOLOGY (B.TECH.) IN **INFORMATION TECHNOLOGY**, JULY 2017

Galgotias College of Engineering and Technology, Dr. A.P.J. Abdul Kalam Technical University, India.

RELEVANT COURSEWORK AND PROJECTS

CALIFORNIA STATE UNIVERSITY LONG BEACH

- FALL 2017
 - CECS-524 – Advanced topics in Programming Languages
 - CECS-526 – Advanced Operating Systems
 - CECS-543 – Advanced Software Engineering
 - CECS-575 – Object Oriented Analysis & Design
- SPRING 2018
 - CECS-528- Advanced Analysis of Algorithms
 - CECS-542- Requirements Engineering
 - CECS-561- Hardware Software Co-Design
- SUMMER 2018
 - CECS-451 – Artificial Intelligence
- FALL 2018
 - CECS-532 – Memory Design Implementation
 - CECS-590 – Deep Learning

PROJECTS

- **Predicting hand drawn sketches using Google's QuickDraw dataset in real time –**
 - Used **Python3** for implementation.
 - Used **OpenCV** to provide user input.
 - Used **Tensorflow** to implement **Convolutional Neural Network** that classified data.
 - Used **Cross Entropy Loss Function** and **ADAM** optimizer for Training.
 - Achieved model accuracy of **94%**.
- **Real Time Audio Filter -**
 - Used **Vivado Design Suite** and **Zybo Zynq-7000 ARM/FPGA SoC** board for hardware implementation.
 - Used **Xilinx SDK** for software side implementation. Used **C#** for implementation.
- **Simulation Based comparative study of open source memory simulators that model DRAM and NVM's –**
 - Used Open Source memory simulators such as **DRAMSim2, Ramulator, GEM5** and **NVMain** to simulate different standards of memory.
 - Results of the simulations were quantitatively compared on metrics such as – **Simulated Clock Cycles, Throughput, Memory Consumption** and **Average Power Consumption**.
 - Used **LaTeX** to write the research paper.
- **Personal Portfolio website**
 - Used **HTML5, CSS3, JavaScript** for implementation.
 - Some libraries used were **jQuery , Bootstrap4 , Animate.js , WOW.js , inview.js** etc
 - View it on – vanshbajaj.me.

WORK AND ADDITIONAL INFORMATION

I.T. INTERN (16 JUNE 2016 – 15 JULY 2016)

Johnsons Control, Pune.

Responsibilities:

- Worked with the IT department to effectively analyze and solve technical issues.
- Developed a content management system using **Struts, JSP, JavaScript, Hibernate, HTML** and **CSS**.
- Conducted research, compiled data and prepared requirements for an office wide portal.
- Used **Eclipse** as the IDE for implementing the application.
- Deployed the system through **Apache Tomcat**.

Languages: English (fluent), Hindi (fluent).

Certifications:

- Completed the Ethereum & Solidity: The Complete Developers Guide on Udemy.
- Completed the Python & Django Web Developer's Guide on Udemy.
- Completed the Python Programmer career track on DataCamp.
- Completed the Data Analyst with Python career track on DataCamp.
- Completed the Data Scientist with Python career track on DataCamp.

Interests: Trading, Basketball, Cricket, Working out, History, Politics, Reading.