

Apoorv Dixit

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EDUCATION

University of Southern California

2023 - Present

Master of Science in Computer Science

Pune Institute of Computer Technology

2017 - 2021

Bachelor of Engineering (Computer Engineering)

GPA: 9.14/10

EXPERIENCE

Siemens Digital Industries Software

Software Engineer - Associate

1st Jul 2021 - 14th Jul 2023

- Worked as a Web Developer on Siemens Zel-X, a cloud-based SaaS Solution that enables mechanical designers/engineers to create, store, edit, and share manufacturing CAD files and projects. Technology Stack - Siemens Web Framework, ThreeJs
- Researched and demonstrated various Artificial Intelligence Use Cases in the Computer-Aided Design Domain. Filed patents for two projects (undisclosed).

Graduate Trainee Engineer

- Worked as a Web Developer on Xcelerator Share, a cloud-based SaaS Solution that facilitates storage and sharing of manufacturing CAD files and projects. Technology Stack - VueJS, ExpressJS, BrowserStack

BizAmica Software Pvt. Ltd.

Machine Learning Intern

5th Aug 2020 - 25th Mar 2021

- Implemented an end-to-end AI Pipeline to extract named entities from Legal Documents of Bajaj Allianz Life Insurance. Technology Stack - SpaCy, Tesseract OCR, Google Vision, BERT,

Bynry Inc.

Web Development Intern

25th May 2020 - 24th July 2020

- Worked on a B2B Web Application Platform for clients in the Energy and Utility Industry. Technology Stack - Angular, TypeScript, Figma

Center for Development of Advanced Computing (C-DAC)

Research Intern

15th Feb 2020 - 15th May 2020

- Studied and Analyzed the performance of Face Embedding Deep-Learning Models like FaceNet and DR-GAN. Benchmarked the performance of twenty Similarity Search Algorithm Libraries.

PROJECTS

- **Creating DFT Files from Scanned Images using AI:** Implemented an AI pipeline for conversion of Scanned Images of Drawing Files to the 2D Drawing File by using techniques like Optical Character Recognition, Image Processing, Computer Vision, and Named Entity Recognition. Technology Stack - Python, Google Vision, OpenCV, SpaCy.
- **Virtual Assistant and ChatBot for Zel-X:** Developed a POC for Virtual Assistant and ChatBot powered by ChatGPT and Google Dialogflow in Zel-X. Technology Stack - VueJs, Siemens Web Framework, OpenAI, Google Dialogflow.
- **Decentralized Vaccine Management System:** Built a Supply Chain Management System for Vaccines that runs on Ethereum Blockchain. Technology Stack - Solidity, JavaScript, ReactJS, NextJS, Mocha, Ganache.
- **Classifier System for Detection of Diabetic Retinopathy:** Created deep learning models to detect the presence and stage of Diabetic Retinopathy in a retinal image. Developed a Web interface with Django Framework.
- **MCQ Platform:** Designed and developed the BackEnd of a WebApp for MCQ-based coding competitions. The WebApp was deployed for my college's Annual Technical Fest, Pulzion' 19. Technology Stack - Django.

ACHIEVEMENTS

- Recognized by Siemens DISW for excellent work in redesigning "Delete" Command in Zel-X.
- Recognized by Siemens DISW for significant contribution to new functionality immediately after completing the training.
- Recognized by Siemens DISW for generating awareness about ChatGPT and LLMs among employees.
- First Place at Siemens DISW Desktop Innovation Day for "Iris - Virtual Assistant powered by LLM"
- Second Place at Siemens DISW Cloud Innovation Day for "Iris - Virtual Assistant powered by LLM"
- Second Place at Siemens DISW Cloud Innovation Day for "Creating DFT Files from Scanned Images using AI".
- Honorable Mention at Siemens DISW Cloud Innovation Day for "Creating DFT Files from Scanned Images using AI".
- First Place at Siemens DISW Cloud Innovation Day for "Presets for Mouse Manipulation Commands in Zel-X".
- Third Place at Siemens DISW Cloud Innovation Day for "Assign Labels to Various Projects".
- Third Prize and the Ethereum Track Prize (Polygon) at the Devcon' 21 HackOverflow for developing "Platform DCMS" - A Blockchain WebApp on Ethereum to host competitions and verify the participants and winners.

SKILLS

- **Programming Languages:** JavaScript, Python, Solidity, Java
- **Web Development Tools:** VueJs, NextJs, Angular, ExpressJs, Siemens Web Framework, ThreeJs, Django, BrowserStack
- **Machine Learning Libraries:** Tensorflow, SpaCy, Transformers, Google Vision, Tesseract, OpenCV, OpenAI

CERTIFICATIONS AND MOOCs

- AWS Partner: Accreditation (Technical)
- Machine Learning Course by Andrew Ng.
- Deep Learning Specialization by Andrew Ng.

VOLUNTEERING AND MISCELLANEOUS

- **Siemens Scholarship Program (SSP):** I volunteered on the assessment panel for SSP - a Corporate Citizenship Initiative by Siemens to bring quality education to college students from economically disadvantaged communities.
- **Siemens DISW ME Family Day:** I volunteered on the organising team for Family Day - an event organised by Siemens ME Department for its employees and their families, with a footfall of over 500.
- **Siemens DISW ME Training Day:** I conducted a training session for about 120 employees on AI techniques like Optical Character Recognition, Named Entity Recognition, and Computer Vision.
- **Siemens DISW ME Programmer's Tutorial:** I conducted a tutorial session for employees on ChatGPT and its integration into WebApps.