

# Apoorv Dixit

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## EDUCATION

<b>University of Southern California</b> <i>Master of Science in Computer Science</i>	2023 - Present
<b>Pune Institute of Computer Technology</b> <i>Bachelor of Engineering (Computer Engineering)</i>	2017 - 2021 GPA: 9.14/10
<b>Fergusson Junior College</b> <i>Higher Secondary School (HSC) - Science Stream</i>	2015 - 2017 Percentage: 85.38%
<b>The Bishop's Co-Ed School, Kalyaninagar</b> <i>Indian Certificate of Secondary Education (ICSE)</i>	2006 - 2015 Percentage: 96%

## EXPERIENCE

<b>Siemens Digital Industries Software</b> <i>Software Engineer - Associate</i> <ul style="list-style-type: none"><li>Technology Stack - Siemens Web Framework, ThreeJs, BrowserStack, Python</li><li>Currently working on Zel-X, a web app that aids mechanical designers in editing CAD files on the browser.</li><li>Researching Artificial Intelligence Use Cases in the Computer Aided Design Domain.</li></ul> <i>Graduate Trainee Engineer</i> <ul style="list-style-type: none"><li>Technology Stack - VueJs, Express, BrowserStack</li><li>Worked as a Web Developer on Xcelerator Share, a cloud platform that facilitated the storage and sharing of CAD files.</li></ul>	1st Jul 2021 - Present
<b>BizAmica Software Pvt. Ltd.</b> <i>Machine Learning Intern</i> <ul style="list-style-type: none"><li>Technology Stack - SpaCy, BERT, Tesseract OCR, Google Vision</li><li>Worked on an NLP project by Bajaj Allianz, tasked with developing an NER Model to extract named entities from Legal Insurance Documents</li></ul>	5th Aug 2020 - 25th Mar 2021
<b>Bynry Technologies Pvt. Ltd.</b> <i>Web Development Intern</i> <ul style="list-style-type: none"><li>Technology Stack - Angular, TypeScript, Figma</li><li>Worked on a B2B Web Application Platform for clients in the Energy and Utility Industry.</li></ul>	25th May 2020 - 24th July 2020
<b>Center for Development of Advanced Computing (C-DAC)</b> <i>Research Intern</i> <ul style="list-style-type: none"><li>Studied Face Embedding Generation Systems, e.g.: FaceNet and DR-GAN, compared their performance using the t-SNE technique. Benchmarked the performance of 20 Similarity Search Algorithm Libraries in Python.</li></ul>	15th Feb 2020 - 15th May 2020

## PROJECTS

- Conversion of Image of Drawing Files to DFT Files using AI:** Developed a POC for conversion of Image/PDF of Drawing Files to the actual Drawing File using AI Techniques like Optical Character Recognition, Image Processing, Computer Vision, Natural Language Processing and Named Entity Recognition. Technology Stack - Python, Google Vision, OpenCV, Spacy.
- Virtual Assistant/ChatBot for Zel-X and SolidEdge:** Developed a POC for Virtual Assistant/ChatBot powered by ChatGPT and Google Dialogflow in Zel-X. Technology Stack - VueJs, Siemens Web Framework, OpenAI, Google Dialogflow.
- Siemens Mobile App:** Developed a POC for a Siemens Mobile App that serves as a marketplace for the PLM products of Siemens. Technology Stack - Figma.
- Vaccine Supply Chain Management System using Blockchain:** Developed a Vaccine Supply Chain Management System using Ethereum Blockchain. Technology Stack - Solidity, JavaScript, Web3, ReactJS, NextJS, Mocha, Ganache.
- PICT Leave Management System:** Worked on a WebApp to facilitate the process of application for leave in my college. Technology Stack - LAMP Stack (Linux, Apache, MySQL, PHP)
- Classifier System for Detection of Diabetic Retinopathy:** Developed a classifier system using convolutional neural networks to detect the presence and the stage of Diabetic Retinopathy in a retinal image.
- MCQ Platform:** Tasked with developing 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

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- Currently in the process of publishing **2 patents** for undisclosed AI projects in CAD domain.
- **Recognized** by Siemens DI SW Mainstream Engineering Department for spreading awareness about ChatGPT and its integration in WebApps, thereby paving the way for innovations.
- **First Place** at Siemens DISW Desktop Innovation Day for the idea - “Iris - Virtual Assistant powered by LLM” in March 2023.
- **Second Place** at Siemens DISW Cloud Innovation Day for the idea - “Iris - Virtual Assistant powered by LLM” in March 2023.
- **Second Place** at Siemens DISW Cloud Innovation Day for the idea - “Conversion of Draft Images to DFT Files using Artificial Intelligence” in March 2023.
- **Honorable Mention** at Siemens DISW Cloud Innovation Day for the idea - “Conversion of Draft Images to DFT Files using Artificial Intelligence” in March 2023.
- **Recognized** by Siemens DI SW Mainstream Engineering Department for excellent work in redesigning Delete Command of Zel-X
- **First Place** at Siemens DISW Cloud Innovation Day for the idea - “Presets for Mouse Manipulation Commands in Xcelerator Share” in June 2022.
- **Recognized** by Siemens DISW ME Department for significant contribution to new functionality in Xcelerator Share immediately after training.
- **Third Place** at Siemens DISW Cloud Innovation Day for the idea - “Assign Labels to Various Projects” in January 2022.
- **Third Place** and the **Ethereum Track Prize** (Polygon) at the Devcon’ 21 HackOverflow on DevFolio for developing “Platform DCMS” - A Blockchain WebApp on Ethereum to host competitions and verify the participants and winners.
- **High Commendation** at ECOSOC committee of the Indian Diplomatic Assembly MUN for representing Nigeria under the agenda “African Nations emerging out of conflict”.

## SKILLS

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- **Programming Languages:** JavaScript, Python, Solidity
- **Web Frameworks and Libraries:** Vue.js, Next.js, Angular, SWF (Siemens Web Framework), Three.js
- **Machine Learning Libraries:** Tensorflow, SpaCy, Transformers, Google Vision, Tesseract, OpenCV, OpenAI

## CERTIFICATIONS AND MOOCS

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

## VOLUNTEERING AND MISCELLANEOUS

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- **Siemens Scholarship Program (SSP):** I volunteered on the assessment panel for Siemens Scholarship Program - 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 Siemens DISW ME 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.
- **PICT ACM Student Chapter:** I Worked on Technical and Non Technical Aspects of the Annual Tech Fest, Pulzion’ 19. I conducted a seminar for Younger Members on “Git and Version Control”.
- **PICT Model UN Club:** I was a part of the Student Organizing Team for 3 annual Model United Nations conferences. I served as the Under Secretary General for Marketing and Internal Affairs (2019-20) and the Head of Logistics (2018-19).