

# ABHIJEET PACHPUTE

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## EDUCATION

- University of Utah** August 2024 - May 2026  
*Master of Science in Computer Science GPA: 4.0 / 4.0*  
Salt Lake City, UT
  - Coursework:** Graduate Algorithms (CS 6150), Deep Learning (CS 6353), Human Aspect of Security & Privacy (CS 6495)
- RMD Sinhgad Technical Institute, Pune University** July 2019 - May 2023  
*Bachelor of Engineering in Computer Engineering GPA: 3.62 / 4.0*  
Pune, India
  - Activities & Societies:** Co-founder & **Vice President** of **Meraki** consisted of students & faculty, aimed at building connections during COVID, Member of Research & Innovation Cell, ACE (Association of Computer Engineers)
  - Achievements:** Published **3 Indian Patents & 2 IEEE papers**, 1<sup>st</sup> runner up at Innovation Thinking & Ideation Competition, Conducted 'Cyber Threats & Security Measures Awareness Program' at **Pune Cyber Police** Cell, Earned Certificate & Diploma in Japanese language from university.

## SKILLS

- Languages & Frameworks:** Python, C++, Java, HTML, JavaScript, CSS, Typescript, PHP, React.js, Node.js
- Tools & Platforms:** Git, GitHub, AWS, Visual Studio, Docker, Colab, Agile, Springboot, MySQL, SQL, MongoDB
- Libraries:** Pytorch, NumPy, Pandas, Scikit-Learn, Spacy, OpenCV, Tensorflow, CNN, Matplotlib, GAN

## EXPERIENCE

- Software Developer Intern** July 2023 - February 2024  
*eWarranty Solutions*  
Pune, India
  - Developed** and maintained **15,000+** lines of clean, efficient, and well-documented **Java** code, improving code readability by **20%** and reducing debugging time by 15%.
  - Collaborated** with cross-functional teams on 3 major projects, enhancing the 'eWarranty' platform and implementing key features in **Springboot** that improved user experience.
  - Troubleshooted** and debugged applications, **increasing system stability** by **25%** and enhancing overall performance.
- Web Developer Intern** August 2022 - March 2023  
*Interstellar Scientific*  
Pune, India
  - Developed** front-end functionality for the company's website using **HTML5**, **CSS3**, and **Node.js**, reducing page load time by **20%** and improving user engagement.
  - Built** a back-end infrastructure with **MySQL** ensuring smooth data management processes.
  - Analyzed** user behavior across devices to identify pain points in the existing design; adjusted layouts based on findings, increasing page load speed by **50%** and reducing user drop-off rates during checkout.
- Cyber Security Analyst Intern** January 2022 - July 2022  
*ShellStrong Technologies*  
Pune, India
  - Analyzed** 7 cybersecurity incidents through digital forensics, identifying vulnerabilities and improving system security.
  - Audited** security protocols for multiple firms, leading to a **30% increase in operational efficiency** by closing security gaps, enhancing compliance with industry standards, and reducing potential risks.
  - Implemented** International quality standard for Information Security **ISO 27001**, reducing potential security risks & enhancing data protection.

## PROJECTS

- TASA (Intelligent Virtual Assistant With Face Authentication):** Built **TASA** (Trusted Assistant with Secure Access), an IVA that enhances security by validating users in **real-time** through face recognition. Ensured data safety, trust, and transparency among users. Achieved over **90% accuracy** in user authentication. (May 2023) (link)  
*Tech Stack: Python, HOG Algorithm, OpenCV, CNN, Raspberry Pi, MonngoDB*
- Image-Dev (Advance Text to Image AI Model):** Image-Dev is a text-to-image generation model that produces **highly photogenic** images with a distinct **painting-like** effect. This **new layer** sits between the text pre-processing layer and the diffusion base model, providing a unique solution for difficult image generation tasks. (December 2022) (link)  
*Tech Stack: Python, GAN, TF-IDF, AWS, MySQL, Diffusion*
- SAFETY H-SHIELD (Women Safety Wearable Device):** It helps women extricate themselves from their situation by sending an **alert message** from the device through a button control system. The device provides an advantage for women in danger, allowing them to receive help **50% faster** than current methods in the surrounding area. (September 2022) (link)  
*Tech Stack: C++, Arduino, GSM Module, AWS, MySQL, HTML, SCSS*

## HONORS AND AWARDS

- Best Innovator & Cybersecurity Expert:** Awarded by Department of Computer Engineering, RMDSSOE (May 2023)
- Smart India Hackathon Finalist:** National Level Competition (SIH1019) (August 2022)
- I2E Cluster Level Competition Finalist:** Top 100 Teams, team's across state of Maharashtra (Jan 2022)