

Ankita Vilas Pimpalkar

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EDUCATION

George Washington University

Washington, DC, USA

Masters in Computer Science

Aug 2024 – Present

Coursework: Advanced Software Paradigms, Design and Analysis of Algorithms, Computer System Architecture, Software Engineering, Data Mining, Cloud Computing

Chandigarh University

Chandigarh, India

Bachelor of Engineering in Computer Science and Engineering

Aug 2016 – Aug 2020

Coursework: Data Structures and Algorithms, Programming in Java and Python, RDBMS, Analog and Digital Electronics, Big Data Analytics, Data Warehousing, Machine Learning, Artificial Intelligence, Discrete Mathematics, Operating Systems, Management Information System

PROFESSIONAL EXPERIENCE

AI/ML & Model-Based Systems Engineering Intern, George Washington University

Feb 2025 – Present

- **Developing AI/ML-based applications** for a **Raspberry Pi-based sensor system**, integrating **NLP, deep learning**, and **computer vision** for **real-time sensor analysis** and **edge computing** using **TensorFlow, PyTorch, OpenCV**, and **Scikit-learn**.
- **Collaborating** with Prof. Eric Dano to integrate **Siemens Model-Based Engineering tools** such as **System Modeling Workbench** and **Teamcenter**, **supporting structured system design**, **troubleshooting complex integration issues**, and **developing APIs**.

Full-Stack Developer, Stealth Startups - Alternative Structure Group, Friends-Square, Go-Scale

Aug 2022 – May 2024

- **Led cross-functional collaboration** across design, frontend, and backend teams to define the **technical roadmap** and provide **strategic recommendations** on technology stacks for scalability.
- **Built** landing pages and optimized databases for **Alternative Structure Group (fintech startup)**, improving **user engagement by 40%** and reducing **backend processing time by 30%**.
- **Accomplished** new features and **optimized backend functionality** for **Friends-Square**, improving **system responsiveness by 35%**, enhancing overall **user experience**. Offered **database solutions** for **Go-Scale's client**, improving platform performance and boosting site traffic by **20%**.

Programmer Analyst Trainee, Cognizant Technology Solutions, Pune, India

June 2021 – July 2022

- Deployed and maintained **150+ enterprise applications** using **PowerShell scripting**, **SCCM deployment**, **SCCM driver packaging**, and **Intune packaging**, achieving a **75% deployment success rate**.
- Automated **silent installations** using VB-Scripts and Batch-Scripts for applications such as **Adobe Acrobat**, **Microsoft Office Suite**, **AutoCAD**, and **Citrix Receiver**, reducing **installation time by 50%**.
- Managed large databases with over **10,000 records**, improving **data integrity by 70%** and ensuring **60% system uptime**.

Web Developer Intern, Root Kings, Pauni, India

Nov 2020 – May 2021

- Developed **Superfan-App**, a celebrity game-based social media platform, using **JavaScript, Vue.js**, and **CSS**, enhancing **user experience and engagement**.
- Optimized **responsive web design** and **cross-browser compatibility**, leading to **higher user engagement**.

PHP Developer Intern, Talent Anywhere Services, Pune, India

Aug 2020 – Nov 2020

- Designed and created **high-performance** platforms such as Gujarati Sahitya Forum and NS4ED using **PHP** and **CodeIgniter**, reducing load times by **40%** and **enhancing user engagement by 30%**.
- Executed critical features such as user authentication and content management systems, increasing **platform security and usability by 25%**.

Junior Java Developer Intern, Maxgen Technologies, Pune, India

Jan 2020 – Jun 2020

- Devised responsive web pages using **Java**, **HTML**, and **CSS** for **BookMyMovie**, increasing website **responsiveness by 20%**.
- Conducted **code reviews and debugging**, ensuring a **90% reduction in system errors** and smooth platform operation.

PHP-Trainee, Centre for Development of Advanced Computing, Chandigarh, India

May 2018 – Jun 2018

- Developed a **PHP-based ticket booking system**, optimizing **SQL queries for high-efficiency data retrieval**, completing the project **15% ahead of schedule**.

SKILLS AND TECHNOLOGY

Programming: Python, Java, SQL, PowerShell Scripting, JavaScript, HTML, CSS, PHP

Databases & Tools: MongoDB, MySQL Workbench, GitHub, VS Code, SCCM, Intune, Figma, MS Office (Excel, PPT, Word)

Frameworks & Libraries: Pandas, NumPy, Matplotlib, TensorFlow, Scikit-learn, OpenCV, Vue.js, CodeIgniter

Data Science & ML: Linear & Logistic Regression, Random Forest, SVM, Neural Networks, PCA, K-Means, Anomaly Detection

Analytical & Soft Skills: Quantitative Analysis, Risk Assessment, Model Evaluation, Strategic Planning, Analytical Thinking, Cross-Functional Collaboration, Process Optimization, Decision-Making

PROJECTS

- **Handwritten Character Recognition:** Developed an **AI-based HCR system** using **Neural Networks and Python**, achieving **70% accuracy** on a **benchmark dataset**.
- **Personal Assistant:** Engineered a standalone **NLP-driven** assistant enabling voice-activated task creation and scheduled event management, improving user automation and productivity by **40%** within the first quarter.