

# Ankita Vilas Pimpalkar

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## EDUCATION

<b>George Washington University</b>	Washington, DC, USA
Masters in Computer Science	Aug 2024 – Present
<b>Coursework:</b> Advanced Software Paradigms, Design and Analysis of Algorithms, Computer System Architecture, Software Engineering, Data Mining, Cloud Computing	
<b>Chandigarh University</b>	Chandigarh, India
Bachelor of Engineering in Computer Science and Engineering	Aug 2016 – Aug 2020
<b>Coursework:</b> 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

<b>AI/ML &amp; Model-Based Systems Engineering Intern</b> , George Washington University	Feb 2025 – Present
<ul style="list-style-type: none"><li>Developing <b>AI/ML-based applications</b> for a <b>Raspberry Pi-based sensor system</b>, integrating <b>NLP, deep learning, and computer vision</b> for <b>real-time sensor analysis</b> and <b>edge computing</b> using TensorFlow, PyTorch, OpenCV, and Scikit-learn.</li><li>Collaborating with <b>Prof. Eric Dano</b> to integrate <b>Siemens Model-Based Engineering (MBE)</b> tools such as System Modeling Workbench and Teamcenter, supporting structured system design and API development.</li></ul>	
<b>Full stack Developer</b> , Freelancing (Stealth Startups - Alternative Structure Group, Friends-Square, Go-Scale)	Aug 2022 – May 2024
<ul style="list-style-type: none"><li>Led <b>technical roadmap development</b> and provided <b>strategic recommendations</b> on technology stacks for <b>scalability</b>. Built landing pages and <b>optimized databases</b> for Alternative Structure Group (fintech startup), improving <b>user engagement by 40%</b> and <b>reducing backend processing time by 30%</b>.</li><li>Accomplished new features and <b>optimized backend functionality</b> for Friends-Square, a New Delhi-based psychology firm, improving system responsiveness by <b>35%</b> and enhancing overall user experience.</li><li>Offered database solutions for Go-Scale's client, <b>improving platform performance</b> and <b>boosting site traffic by 20%</b>.</li></ul>	
<b>Programmer Analyst Trainee</b> , Cognizant Technology Solutions, Pune, India	June 2021 – July 2022
<ul style="list-style-type: none"><li>Deployed and maintained <b>150+ enterprise applications</b> using <b>PowerShell scripting, SCCM deployment, SCCM driver packaging, and Intune packaging</b>, achieving a <b>75% deployment success rate</b>.</li><li>Automated <b>silent installations</b> by using VB-Scripts and Batch-Scripts for applications such as <b>Adobe Acrobat, Microsoft Office Suite, AutoCAD, and Citrix Receiver</b>, reducing <b>installation time by 50%</b>.</li><li>Managed large databases with over <b>10,000 records</b>, improving <b>data integrity by 70%</b> and ensuring <b>60% system uptime</b>.</li></ul>	
<b>Web Developer Intern</b> , Root Kings, Pauni, India	Nov 2020 – May 2021
<ul style="list-style-type: none"><li>Developed <b>Superfan-App</b>, a celebrity game-based social media platform, using <b>JavaScript, Vue.js, and CSS</b>, enhancing <b>user experience and engagement</b>.</li><li>Optimized <b>responsive web design</b> and <b>cross-browser compatibility</b>, leading to <b>higher user engagement</b>.</li></ul>	
<b>PHP Developer Intern</b> , Talent Anywhere Services, Pune, India	Aug 2020 – Nov 2020
<ul style="list-style-type: none"><li>Designed and created <b>high-performance</b> platforms such as Gujarati Sahitya Forum and NS4ED using PHP and CodeIgniter, reducing load times by 40% and <b>enhancing user engagement by 30%</b>.</li><li>Executed critical features such as user authentication and content management systems, increasing <b>platform security and usability by 25%</b>.</li></ul>	
<b>Junior Java Developer Intern</b> , Maxgen Technologies, Pune, India	Jan 2020 – Jun 2020
<ul style="list-style-type: none"><li>Devised responsive web pages using Java, HTML, and CSS for BookMyMovie, increasing website <b>responsiveness</b> by 20%.</li><li>Conducted <b>code reviews and debugging</b>, ensuring a <b>90% reduction in system errors</b> and smooth platform operation.</li></ul>	
<b>PHP-Trainee</b> , Centre for Development of Advanced Computing, Chandigarh, India	May 2018 – Jun 2018
<ul style="list-style-type: none"><li>Developed a <b>PHP-based ticket booking system</b>, optimizing <b>SQL queries for high-efficiency data retrieval</b>, completing the project <b>15% ahead of schedule</b>.</li></ul>	

## SKILLS AND TECHNOLOGY

<b>Languages:</b> Java, Python, PHP, PowerShell Scripting, HTML, CSS, JavaScript, SQL
<b>Databases &amp; Frameworks:</b> MongoDB, MySQL Workbench, CodeIgniter (PHP Framework), Vue.js
<b>Data Science &amp; Machine Learning:</b> Data Analysis Libraries - Pandas, NumPy, Matplotlib; Machine Learning - Linear and Non-Linear Models, Random Forest, SVM, Neural Networks, Unsupervised Methods (Dimensionality Reduction, Clustering)
<b>Development &amp; Deployment Tools:</b> Figma, Visual Studio Code, MS Office, SCCM, Intune, GitHub
<b>Soft Skills &amp; Leadership:</b> Analytical Thinking, Cross-Functional Collaboration, Process Optimization, Strategic Planning, 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:** Built a **standalone NLP-powered assistant** enabling **voice-based task creation and event scheduling** for improved **user automation**.