Parth Mital

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linkedin.com/in/parthmital   parthmital.github.io/Portfolio

Education

Vellore Institute of Technology (VIT)   Vellore, India
B.Tech, Computer Science and Engineering   2023 – 2027
CGPA: 8.66 / 10

Relevant Coursework: Data Structures & Algorithms, Computer Networks, Operating Systems, Database Systems, Computer Architecture, Compiler Design, Theory of Computation, Artificial Intelligence, Cloud Architecture Design

Technical Skills

Languages: Python, Java, C, C++
Python: PyTorch, YOLOv8, NumPy, Pandas, Matplotlib, scikit-learn, Selenium
Backend & Databases: REST APIs, PostgreSQL, SQL, MongoDB, Prisma ORM
Frontend: HTML5, CSS3, Tailwind CSS, JavaScript, TypeScript, React.js, Next.js
Tools & Systems: Linux, Windows, PowerShell, Bash, VMware Workstation, Wireshark, Git, GitHub
Domains: Software Development, Full-Stack Web Development, Backend Engineering, Automation and Scripting, Systems Performance and Privacy, Cybersecurity, Machine Learning

Projects

Automated Course Material Aggregation Pipeline (Python, Selenium, CSV)   Nov 2025 – Dec 2025
 VTOP-Scraper   Folder-Details   PDF-Converter

- Automated bulk download and renaming of 100+ faculty course materials from VTOP in a single run, with robust handling for timeouts, stale elements, and duplicate ZIP names.
- Scanned 50+ faculty folders to compute total pages/slides per subfolder and exported CSV summaries to identify top 1–2 "best notes" per subject.
- Converted 200+ Word/PowerPoint files to PDF via COM automation to standardize course material format for sharing and archival.

OS Debloating Performance & Privacy Study (VMware, PowerShell, Linux shell)   Oct 2025 – Nov 2025
 github.com/parthmital/Operating_System_Debloating

- Built a VMware-based benchmarking setup with 10+ VMs to compare stock vs debloated Windows 10/11 and multiple Linux distributions under identical resource limits.
- Recorded boot time, idle RAM/CPU, disk I/O, and outbound telemetry, achieving 40–60% lower idle RAM, 30–50% faster boot, and over 50% fewer unsolicited connections after debloating.

Socially — Full-Stack Social Media Platform (Next.js, React, PostgreSQL)   Aug 2025 – Sep 2025
 socially-henna.vercel.app   github.com/parthmital/Socially

- Implemented a social platform with user profiles, follow graph, image posts, likes, comments, and real-time notifications using Next.js, React, Tailwind CSS, PostgreSQL, Prisma, and Clerk auth.

Multimodal Plant Health Diagnostic System (Python, YOLOv8, TabNet)   Jul 2025 – Aug 2025
 github.com/Mo-Kash/PhytoScan

- Developed a multimodal pipeline combining YOLOv8s-seg for disease segmentation, YOLOv8s for insect detection, and TabNet for tabular symptom classification on custom CVAT-annotated datasets (100 images).

Experience

Web Development Intern — Hiraeth Tech   Jun 2025 – Jul 2025
Vadodara, India

- Built and customized 5+ responsive WordPress sites using Elementor and custom CSS, ensuring consistent layouts across major desktop and mobile browsers.
- Integrated interactive components (forms, galleries, sliders) and optimized 40+ media assets, cutting page weight by up to 30% and improving perceived load times.