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## EDUCATION

THE GEORGE WASHINGTON UNIVERSITY	Washington DC
M.S. in Computer Science (ML and AI)	2024-26
Relevant Coursework: Machine Learning, Natural Language Understanding, Computer Vision (Audited)	
BIRLA INSTITUTE OF TECHNOLOGY AND SCIENCE, PILANI	Pilani, India
B.E (Hons) Electronics and Instrumentation and M.Sc.(Hons) Economics	2013-2018

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## RESEARCH EXPERIENCE

<b>Vision Lab @ GWU</b>	Washington DC
<i>Graduate Researcher</i>	Since October 24
<ul style="list-style-type: none"><li>Working under <b>Dr Robert Pless</b> on ViT-based image retrieval for large-scale, real-time image analysis.<ul style="list-style-type: none"><li>Created a dataset of 3K live webcams</li><li><b>Developed</b> an efficient pipeline for storing and querying <b>3K+ live webcam images</b> using CLIP embeddings.</li><li>Working on <b>enhancing</b> image search methods to improve retrieval accuracy and speed for real-world applications.</li></ul></li></ul>	

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## PROFESSIONAL EXPERIENCE

<b>Regie.ai</b> (previously dei.ai)	US-Remote
<i>AI Content Generation and Automation Startup</i>	
<b>Senior Full Stack Engineer</b>	November 2020 – June 2024
<ul style="list-style-type: none"><li>Developed Few-Shot Learning prompts to generate diverse and high-quality email and marketing content.</li><li>Led the data curation and cleaning process, optimizing GPT-3 model performance for varied use cases and communication styles.</li><li>Designed and implemented an AI response anomaly detection and analytics tool (early version of Eval) to improve model reliability.</li><li>Built a ChatGPT-style conversational AI by fine-tuning the GPT-3 base model, gaining deeper insights into fine-tuning techniques.</li><li>Custom Content Management System (CMS)<ul style="list-style-type: none"><li>Developed a robust, Google Drive-like CMS leveraging a graph-based data structure in MongoDB to efficiently manage a hierarchical file system</li><li>Implemented comprehensive file and folder management capabilities, including seamless integration with AWS S3 for storage.</li></ul></li></ul>	
<b>BharatPe</b>	New Delhi, India
<i>Fintech Startup</i>	
Software Engineer	April 2020 – November 2020
<ul style="list-style-type: none"><li>Custom Payment Link using Stripe</li><li>Configurable KYC platform for various Fintech products across the organization (Java, Postgres, React)</li><li>Migrated Merchant facing app from PHP to React with zero downtime</li></ul>	
<b>Shipsy</b>	New Delhi, India
<i>Logistics Software Startup</i>	
Software Engineer	January 2019 – March 2020
<ul style="list-style-type: none"><li>Built a service to track containers - involved web-scraping, OCR to overcome captcha and API to serve the scraped data</li><li>Optimized React Application - smaller builds, reduced repetitive calculations</li><li>Created and maintained private npm packages</li></ul>	

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## INTERNSHIP EXPERIENCE

JP Morgan Chase and Co.	Bangalore, India
Analyst Intern	August 2018 - December 2018
<ul style="list-style-type: none"><li>Wrote automation scripts to increase process efficiency by 40 per cent.</li><li>Managed and improved the Straight Through Process which handles around 80 per cent volume of Transfer Agency</li><li>Cross-trained multiple employees to remove dependencies within the process.</li></ul>	

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## SKILLS

- Languages** - JavaScript / Typescript / ES6+ | Python | Java | git | bash
- LLM** - Fine Tuning, RAG, Prompt Engineering
- Databases** - MongoDB, Redis, Postgres
- Web Application Development Technologies** - NodeJS, React, HTML, CSS
- DevOps** - Familiar with the basics of AWS, Docker