Anujay Ghosh

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EDUCATION

Stony Brook University (SUNY), Master of Science - Computer Science — January 2023 - December 2024
Relevant Coursework: *M.S. Thesis* on Accessibility using LLM, Computer Vision, Data Science, Databases, Statistics.

University of Mumbai, Bachelor of Engineering - Computer Engineering — August 2016 - November 2020
Relevant Coursework: Machine Learning, AI, NLP, Operating Systems, Computer Networks, Software Engineering

SKILLS

Technical Skills	Python, JAVA, Spring Boot, SQL, Oracle, JavaScript, AWS, HTML, CSS, XML
Software and Frameworks	Pytorch, TensorFlow, Keras, numpy, scikit-learn, scipy Git/GitHub, Cursor IDE, REST APIs, DB2, Apache Spark, Hadoop, Slack, Jenkins, VS Code, Postman, BASH
Software Development	Linux, SDLC, Agile, Jenkins, DevOps, CI/CD, Scrum, uDeploy, JIRA, Rally, Confluence

WORK EXPERIENCE

Stealth AI Startup — February 2025 - May 2025
AI and Software Engineer Consultant — *San Francisco, USA.*

- **Designed and implemented secure, scalable backend APIs** using Node.js, Express, and TypeScript, enabling OAuth2 authentication and Reddit API integration supporting over 10,000 automated actions per day. **Engineered end-to-end Reddit automation**: implemented endpoints for post/comment creation, subreddit search, and analysis.
- **Developed advanced AI-powered features** by integrating OpenAI and Anthropic APIs for automated content generation, and intelligent workflow suggestions, automating content generation and analysis for 1,000 workflows, reducing manual moderation time by 60%. **Resolved critical bugs and shipped high-impact features** such as AI-generated Reddit comments, and robust error handling, decreasing production error rates by 70%.
- **Enhanced security and privacy** by encrypting sensitive data, secure credential storage, and comprehensive input validation, resulting in zero security incidents. **Optimized application performance** through response caching and batch processing, reducing API response times by 50% and supporting 5x more concurrent users.

Dept. of Computer Science - SUNY at Stony Brook — August 2023 - December 2024
Graduate AI Research Assistant — *New York, USA.*

- Developed Savant, an innovative assistive technology powered by large language models (LLMs) to enable uniform computer interaction for blind users across diverse applications, automating screen reader actions through **MS UI Automation** and advanced NLP techniques in **Python**, with **90%** accuracy through natural language commands.
- Implemented fine-tuning and few-shot learning to enhance LLMs' to interpret natural language commands and automate the correct sequence of screen reader actions in an application-agnostic solution
- Conducted user studies with 11 blind participants, demonstrating significant improvements in interaction efficiency (4x faster) and usability (3x higher SEQ score) compared to standard screen readers.

Accenture — January 2021 - January 2023
Software Engineer — *Mumbai, India*

- Improved Cigna's Enrollment strategy backend with **Java Spring Boot, AWS (S3, CloudWatch, VPCs),** and **REST APIs**. Achieved a **30%** scalability boost in application development and **40%** faster response times.
- Reduced client's AWS costs with the team while maintaining product quality by **30%** through EC2 reserved instances, and effectively utilizing **S3** for storage, **CloudWatch** for monitoring, and **VPCs** for network isolation and reliability while also leveraging **Python lambdas**.
- Collaborated in a 5-member cross-functional **Agile** development team, utilizing **Java, Python, RESTful APIs, SQL,** and **AWS** services. Achieved a **15%** productivity boost and on-time, on-budget delivery of **4** major projects.

PROJECTS

- **Leveraging Language Models for Predictive Analytics: Enhancing Corporate Ratings:** Implemented Language Models (LLMs) and Data Science methodologies to analyze data from 3500 companies. Collaborated closely with Broadridge Financial Solutions to utilize graph neural networks to identify areas for improvement within companies. Generated actionable recommendations to enhance company ratings relative to industry peers and produced concise summaries outlining strategic pathways for improvement.
- **Class-agnostic counting using a similarity-aware framework:** Extending the work using CNN and Transformers presented in BM-Net, which involves counting instances of an object in a query image given a few exemplars. The trained model achieves state-of-the-art performance on the CAC dataset FSC147 by leveraging bilinear matching networks, bounding boxes, and dot annotations to denote exemplars.