KUNAL SONI

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OBJECTIVE

Current Master of Computing postgraduate interested in artificial intelligence and software engineering. Looking for an internship in the ICT, finance, or consulting industry by May 2026.

EDUCATION

National University of Singapore   **Aug 2025 - Present**
Master of Computing - Specialization in Information Systems
Relevant Coursework: Natural Language Processing, Big Data Systems for Data Science, Strategizing for Global IT Enabled Business Success

Indian Institute of Technology, Madras   **Aug 2004 - Jul 2009**
B. Tech. & M. Tech. (Dual Degree) - Major: Naval Arch. and Ocean Eng., Minor: Operations Research
Relevant Coursework: Computational Engineering, Probability and Random Processes, Statistics, Fundamentals of Operations Research, Advanced Operations Research, Computer Simulation

WORK EXPERIENCE

Director, Emerging Technologies   **Dec 2023 – Dec 2024**
Liqvid e-Learning Services Pvt. Ltd. - EdTech. Startup
- Built a RAG-based chat-engine to help nurses prepare for the Occupational English Test by comparing their responses to AI-based responses, improving self-assessment and training efficiency.
- Developed backend and frontend for a children's quiz website on MyGov.in, enhancing digital engagement for the Government of India.

Technical Lead, Data Analytics   **Nov 2022 - May 2023**
InsuranceDekho - InsureTech Startup
- Developed the backend for health and motor insurance renewals, enabling seamless and automated policy processing.
- Developed a RAG-based chatbot for the health insurance line of business, enabling automated, accurate responses to customer queries.

Associate Director, Data and Engineering   **Aug 2021 - Mar 2022**
PristynCare – HealthTech Startup
- Developed a route optimized scheduler for planning doctors' surgeries, eliminating the need for manual scheduling.
- Automated Google Ads reporting with a custom tool, reducing manual effort and enabling faster campaign insights.

Associate Director, Data Technology   **Nov 2020 - Jun 2021**
Shopperr.in - Ecommerce Startup
- Formulated the vision document to implement analytics for an e-commerce firm, aligning stakeholders, and accelerating data-driven decision-making.
- Built a web scraper for Alibaba, Amazon, and Flipkart that automated identification of top-rated products, improving product selection and enhancing sales for the cross-border e-commerce platform.

Founder   **Sep 2019 – Sep 2020**
Opplan.ai - Software & AI Boutique Consulting Firm
- Built an image filtration tool for Creatalogue Internet Pvt. Ltd., automating image selection and improving workflow efficiency.
- Built a pilot chat web application for Profoundly.com, enabling real-time online dating trials.

Forecaster (Software Engineer 2/Applied Scientist 2)   Jul 2016 - Jun 2018
Amazon.com - Global Ecommerce Company
- Developed the worldwide device and digital contacts forecasting system, streamlining (25x speed-up, 40 man-hours/week savings), standardizing (one method for all planning horizons, 15+ countries), and scaling (~6000 devices per country, add any number of new countries) the forecasting process.

Data Scientist   Jan 2016 - Jun 2016
Tatras Data – Software & AI Boutique Consulting Firm
- Developed an apparel recommender system for UK fashion tech company Dressipi, enabling personalized online shopping experiences and driving higher sales.

Scientist, Software Science and Analytics   Aug 2012 - Mar 2015
GE Global Research – General Electric Company's R&D Division
- Developed a predictive analytics model to plan down time of and prevent critical damage to gas turbines, saving $5 MM annually for GE's clients.
- Designed a refrigerator compressor prototype with more than 20 years of reliability and higher energy efficiency than Embraco, LG, and Samsung compressors, eliminating GE Appliances' dependency on external sourcing.
- Developed a statistical asset portfolio risk calculator for GE Capital, enhancing risk assessment accuracy and decision-making.
- Developed alloy solidification simulation software for GE Aviation, securing $60,000 in research funding from GE Aviation.

Engineer   Dec 2011 - Jul 2012
TATA Computational Research Laboratories – HPC IT Company
- Developed a software on EKA supercomputer to design ground vehicles for TATA Motors.

Research Associate   Aug 2009 - Aug 2011
University of Wyoming & ONR – University
- Developed flow physics software on HPC platform for US Army rotorcraft research, improving simulation efficiency.

AWARDS AND HONORS
- **ATMS Technology Project of the Year 2013 Award** – Awarded by GE's CTO for developing a refrigerator compressor prototype with **higher energy efficiency** than **Samsung, LG, and Embraco** compressors and over **20 years of reliability**. Projected to save **$70M annually for GE Appliances** and to reduce electricity costs for millions of North American households. (**1st among 25 worldwide projects**)
- **GE Lead Expo 2013 Award** – Led a 17-member engineering team to present on GE India's technology function and **proposed a strategy** to improve its bottom line; the presentation was adjudged the **best among 11 teams** by a panel of GE India executives. (**1st among 11 presentations**)

TECHNICAL SKILLS
Programing languages: Python, TypeScript, JavaScript, MATLAB/OCTAVE, Java, R, HTML, CSS
Libraries: PyTorch, Tensorflow, Numpy, SciPy, Matplotlib, LlamaIndex, LangChain, and Google OR Tools
Frameworks: GIT, Docker, NestJs, ExpressJs, Django Rest Framework, ReactJs, NextJs
Tools & Databases: Grafana K6, Postman, Rabit MQ, Microsoft Office, PostgreSQL, MongoDB, Redis, Weavite

CERTIFICATE COURSES
Statistical Learning (Stanford Online), GE's ACE in Analytics and Software, Lean Six Sigma Green Belt, Problem Solving (Hacker Rank Gold Badge), Python (Hacker Rank Gold Badge), Machine Learning (Coursera), Generative AI with Large Language Models (Coursera), The Complete Node.js Developer Course, NestJs The Complete Developers Guide, React – The Complete Guide, Python Django – The Practical Guide, Docker for the Absolute Beginner

LANGUAGES
English, Punjabi, Hindi, Mandarin

INTERESTS & HOBBIES
Swimming, Cricket, Reading, and Workout