LUCKY VERMA

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EDUCATION

University of Maryland, Baltimore County	Baltimore, MD
Masters of Science in Computer Science (GPA - 4.0)	*Aug. 2021 – May 2023*
SRM University	Chennai, IN
Bachelor of Technology in Electrical & Electronics Engineering	*July 2015 – May 2019*

TECHNICAL SKILLS

Languages: Python, C++, SQL (Postgres/PostGIS), JavaScript, HTML/CSS
Frameworks: PyTorch, Django, REST, React, TensorFlow, ELK stack, Scikit-Learn
Developer Tools: Git, Postman, AWS, TravisCI/Jenkins, Docker, VS Code, PyCharm, Tableau
Libraries: Pandas, NumPy, Matplotlib, Transformers, SciPy, Plotly

EXPERIENCE

Graduate Research Assistant   Jan. 2022 – present
University of Maryland, Baltimore County   *Baltimore, MD*
- Understanding the complex interplay among various processes that contribute to young adults' food choices.

AI Specialist - III   Jan. 2021 – Aug 2021
Vast Dream Group   *Sydney, AU*
- Focused in Computer vision, Natural Language Processing & Data modeling.
- Implemented Unilm algorithm to fine tune document classifier with roughly 98% accuracy.
- Developed Core AI algorithm for an in-house project.

Full Stack Developer   May 2020 – Nov. 2020
TandM Techlabs   *Bangalore, IN*
- Developed a product that offers services for Urban Mobility dealing with B2B solutions.
- Implemented GEO-spatial Data sciences, GIS, Data visualizations, and Analytics for developing the services.
- Created routing, discovery, and orchestrating micro-services using UDST Toolkit.

Full Stack Developer   June. 2018 – Present
Freelancer   *Mumbai, IN*
- Developed REST APIs in the Django framework for a Fintech Client recently acquired by Swipe.
- Developed a Learning Management System serving thousands of students at *CAT Assist.*
- Built intelligent payments integrated bots in Python using several platform's APIs.

PROJECTS & ACADEMIC PUBLICATIONS

Portfolio Optimization | *Python, TimescaleDB, Django*   May 2021 – Sep 2021
- Implemented portfolio optimization and quantitative strategic asset allocation on Indian Stocks Market (NSE).
- Built investment portfolios based on convex programming methods using CVXPY.
- Customized Quantstats to serve in-depth analytics and risk metrics.
- Built investment strategies that outperform benchmark(NIFTY50) returns 3x in backtesting in rolling window.

Invoice Information Extraction | *Python, PyTorch, openCV, yolo* May 2021 – Sep 2021
- Developed end-to-end software that processes invoice & extracts all relevant information to respected fields.
- Incorporated YOLO object detection algo to achieve 90% accuracy.
- Tested and deployed the app using Docker & AWS S3.

Gesture control of drone using Leap Motion | *NodeJS, LeapMotion, Arduino*   Aug 2019 – May 2020
- Implemented JohnnyFive framework on the websocket i/o from leap Motion controller to direct 3D motion.
- Data feed handled to Firmata script in Arduino to handle analog signals.
- Paper published in International Journal of Control and Automation (IJCA)

INTERNSHIPS & EXTRA-CURRICULAR

HackUMBC 2021 Winner (Best Docker App.) | *University of Maryland, Baltimore County*	Oct. 2021
Android Developer | *CodeBind Technologies*	June 2017
Web-Development of Department Fest - VERSIO, | *SRM University*	Jan. 2018 – Apr. 2018