

# LUCKY VERMA

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## EDUCATION

### University of Maryland, Baltimore County

*Masters of Science in Computer Science (GPA - 4.0)*

Baltimore, MD

Aug. 2021 – May 2023

### SRM University

*Bachelor of Technology in Electrical & Electronics Engineering (GPA - 3.9)*

Chennai, IN

July 2015 – May 2019

## TECHNICAL SKILLS

**Languages:** Python, C++, SQL, JavaScript, HTML/CSS

**Frameworks:** PyTorch, Django, REST, React, TensorFlow, ELK stack, Postgres/PostGIS, Scikit-Learn

**Developer Tools:** Git, Postman, AWS, TravisCI/Jenkins, Docker, VS Code, Tableau

**Libraries:** Pandas, NumPy, Matplotlib, Transformers, SciPy, Plotly

## EXPERIENCE

### Graduate Research Assistant

*University of Maryland, Baltimore County*

Jan. 2022 – present

Baltimore, MD

- Developing tools for data analysis using CV/ML & pandas also, building web-apps for learning platform.

### AI Specialist - III

*Vast Dream Group*

Jan. 2021 – Aug 2021

Sydney, AU

- Focused on Computer vision, Natural Language Processing & Data modeling.
- Implemented Unilm algorithm to fine-tune document classifier with roughly 98% accuracy.
- Developed Core architecture for an in-house project.

### Full Stack Developer

*TandM Techlabs*

May 2020 – Nov. 2020

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

*Self-Employed*

June. 2018 – Aug. 2021

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 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 invoices & extracts all relevant information to respected fields.
- Incorporated YOLO object detection architecture to achieve 87% 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 Johnny-Five 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