

Venkata Bala Vamsi Atukuri

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EDUCATION

Master's degree in Computer Science, The State University of New York, Buffalo, NY, USA Aug 2022 - Dec 2023 (Expected)
Courses: Database systems, Data Intensive Computing, Modern Networking Concepts, Data Structures and Algorithms. GPA: **4.0/4.0**

Bachelor's degree in Computer Science, Indian Institute of Technology (IIT), Dharwad, India July 2016 - May 2020
Courses: Operating systems, Distributed systems, OOPS, Pattern Recognition and Machine Learning. CGPA: **8.37/10.0**

TECHNICAL SKILLS

Programming Languages: C, C++, Ruby, JavaScript, Python, Java, Solidity.
Web Technologies: HTML, CSS, JS(ES6), RESTful API development, Ruby on Rails, Node Js, React, React-Redux, Next Js.
Database & Cloud: SQL, NoSQL, MySQL, PostgreSQL, MongoDB, Redis, AWS, Azure, Google Cloud.
Others: Microservices, OOPS concepts, Operating system internals, Multithreading, Agile, SDLC, Jira, Git, Confluence, CI/CD, IAM.

WORK EXPERIENCE

Kuvera, Bangalore, India **Senior Software Engineer** **May 2021 - July 2022**

- **Led** the backend development of EPF and US stocks features, and optimized complex database queries, resulting in a **99.87% decrease** in job execution time, from 12 hours to just 15 minutes.
- **Reduced** the number of API calls to Vested for retrieving US stocks' historical prices **by 90%**, resulting in a 10-fold decrease in server load and improving the overall system's performance.
- **Optimized** and scaled up the EPF legacy code using AWS Lambdas and SQS, **reducing** transaction retrieval time **by 99%**, from 6 hours to just 5 minutes.
- Collaborated to successfully develop a **multi-tenancy architecture** enabling **Amazon** India customers to invest in fixed deposits and mutual funds through Kuvera, which resulted in a remarkable **150% increase in the user base**.
- Successfully integrated Tata instant redemption mutual fund, **reducing** investor withdrawal time **from three days to under 30 minutes**, significantly improving the withdrawal process.
- Collaborated on the integration of Axis Bank fixed deposits into our platform, resulting in an impressive **50% increase** in investments through the platform.
- Successfully managed stock splits in US stocks, accurately adjusting price data and maintaining the accuracy of historical prices, which helped inform investment decisions and financial analyses.
- Successfully integrated Amazon Pay Gift Cards into the rewards section, resulting in a significant increase in gift card redemptions and improving overall customer satisfaction.

Tesark, Bangalore, India **Software Engineer** **July 2020 - April 2021**

- Successfully designed and developed a B2B invoice discounting application that streamlined the process of invoice discounting, resulting in increased access to capital for businesses and providing a profitable opportunity for investors.
- Developed a comprehensive school/college management software with streamlined administrative tasks, managing admissions, transportation, announcements, exams, grading, and more.

PROJECTS

- **New York Cannabis Exchange:** Developing an online B2B auction application that facilitates the buying and selling of cannabis products in New York state. The platform aims to streamline the process of buying and selling while ensuring compliance with state regulations and is expected to generate significant value and revenue for businesses in the industry.
- **Decentralized food bank application:** Developed a blockchain application that connects donors and food banks, empowering donors to make crucial decisions about how to utilize the funds raised, thereby reducing the risk of fraud.
- **Next-Gen Product Identification:** Developed a product identification algorithm that can replace traditional barcode scanners at retail checkouts by identifying products from images using Convolution networks, Spectral Histogram features and object detection models.

PUBLICATIONS

Segregation of Areca Nuts Using Three Band Photometry and Deep Neural Network **Springer icSoftComp2021**

- Built a machine that accurately identifies areca nuts based on their colour using machine learning algorithms, including Convolutional Neural Networks, Bayes classifier, and Support Vector Machine, resulting in the successful implementation of a functional system.

AWARDS & ACHIEVEMENTS

- Received **Quality Maestro Award** and **Team Player Award** at Kuvera for my unwavering commitment to delivering exceptional code that is consistently free of bugs, as well as for my outstanding teamwork skills.
- Ranked in the **top 11%** globally on Leetcode out of 400,000+ participants, with a contest rating of **1700+**.
- Secured an All India rank of **8426 out of 1.2 million** students in IIT JEE Advance 2016.
- Merit Cum Means Scholarship holder at IIT Dharwad from 2016 to 2020.