Srinivas Mokkapati

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Technical Skills

Frameworks: TensorFlow, Keras, OpenCV, NumPy, Pandas, Matplotlib, Spring, React.js, Node.js, Flask
Languages: Python, Java, C/C++, HTML/CSS, JavaScript, TypeScript
Cloud & Databases: AWS (Elasticsearch, ECS, Lambda, SNS/SQS, DynamoDB), MySQL, MongoDB, Git

Experience

Amazon **Aug 2022 – Present**
Software Development Engineer Hyderabad, India

- Designed and implemented a payment alert system to notify customers of payment failures on their orders on Your Orders page using AWS SQS and SNS, ECS on Java serving approximately 80 million requests per day.
- Proposed a design to render order cards for 11 order types on Your Orders page using AWS ECS on Java, AWS DynamoDB involving integration with multiple REST APIs, partner team alignment, and simplification of redundant attributes in the order card using the Strategy Design pattern.
- Developed search functionality on Your Orders page using AWS Elasticsearch using different tokenization approaches. The search engine serves approximately 1 million requests per day.

Amazon **Feb 2022 – Jul 2022**
Software Development Engineer - Intern Hyderabad, India

- Designed and developed a Proof of Concept(PoC) for launching Your Orders page on mobile platforms using AWS ECS on Java, AWS Cloudfront and VPC which brought a paradigm shift in the team to switch from desktop-first approach serving close to 12 million orders everyday.

OpenText Technologies **Oct 2021 – Dec 2021**
Software Intern Hyderabad, India

- Worked on form migration process for different clients, based on Electronic Data Interchange(EDI) standards which sped up their business cycles and on writing unit and integration tests for an internal product.

Secure Space Private Ltd **Jan 2020 – Sep 2020**
Software Intern Hyderabad, India

- Developed a web crawler using BeautifulSoup that goes n-levels in web based on the user inputs.
- Worked closely with Director to evaluate the things we can improve to enhance the learning experience of children by delivering concepts like Cryptography in a structured and apprehensible way.

Education

Jawaharlal Nehru Technological University, India **2018 - 2022**
Bachelor of Technology in Computer Science and Engineering **GPA:** 7.94/10

Akash Institute, India **2017-2018**
High School Correspondence Course No grade awarded

Sri Chaitanya Junior College, India **2015-2017**
High School **Percentage:** 94.6

Bhashyam High School, India **2014-2015**
High School **GPA:** 9.7

Certifications

- **Social Networks** – NPTEL (Elite)
- **Data Science for Engineers** – NPTEL (Elite)
- **Introduction to Research** – NPTEL (Elite)
- **Real-Time Systems** - NPTEL (Elite)
- **Machine Learning** – Coursera
- **Python Data Structures** – Coursera
- **Python for Everybody** – Coursera

Projects

Reverse Image Lookup System **Github**

- Built a Reverse Image Lookup System leveraging deep learning and computer vision to perform content-based image retrieval (CBIR) with 95% accuracy using a convolutional neural network (CNN) to extract dense image features and compare similarity using cosine and hamming distance metrics.
- Designed a scalable web-based interface using Flask and integrated a login-based system to track user activity and past searches for enhanced user experience.

Sign Language Detector **Github**

- Developed a real-time sign language recognition system using CNNs, translating American Sign Language (ASL) gestures into text.
- Integrated OpenCV and TensorFlow for gesture detection, optimizing processing speed to classify gestures within milliseconds per frame using a dataset of thousands of labeled hand gesture images.

Sudoku Solver **Github**

- Built a Sudoku Solver using OpenCV and deep learning, leveraging image processing techniques (Gaussian blurring, adaptive thresholding, contour detection) to extract and recognize digits from images.
- Achieved 99.04% validation accuracy using a CNN trained on the MNIST dataset and implemented a backtracking algorithm to efficiently solve Sudoku puzzles.

Achievements

- **Invent and Simplify Award**: Optimized page load time by **approximately 70%** using lazy loading, code splitting, and multi-threading. Recognized at the Director level.
- **Engineering Excellence Award**: Optimized server efficiency by eliminating bottlenecks (unused code, excessive logging, memory leaks), saving Amazon **$1M+** over 5 years.
- Won prize money 5 times and been onto the leader-board for 13 times in collegiate coding competitions.
- Achieved a rank of 4,294 out of ∼200K students in the EAMCET (Engineering, Agriculture and Medical Common Entrance Test) exam, securing a **fully-funded scholarship** for my bachelor's degree.