

Srinath Naik Ajmeera

Master's in Computer Science

University of California Los Angeles

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EDUCATION

Bachelor's in Computer Science & Engineering — GPA 8.26/10	Mumbai
Indian Institute of Technology Bombay	2018
Intermediate/+2, MPC — 94.9%	Hyderabad
Board of Intermediate Education Andhra Pradesh	2014
Secondary School Certificate (SSC) — GPA 9.8/10	Warangal
SPR Schools of Excellence	2012

INTERESTS

- Image Processing & Computer Vision, AI & ML, Robotics

WORK EXPERIENCE

Software Development Engineer	April 2021 - August 2021
Amazon	Bangalore
<ul style="list-style-type: none">• Was part of the Hardlines DEX/REX team, contributing to delivery and returns experience of Hardlines products like TV, Refrigerator & High Considerate Technical Products like Laptops, Tablets.• Worked on design & solutioning(HLD, LLD) of 'Serial Scan' project - which enables serial number regex/deep validation of products at various stages of shipping/returns journey.• Contributed to design (HLD) for 'Same Day Resolution' project - to display a card on detail page of Amazon.in regarding availability of same day resolution/technician visit for the product.	
Software Engineer	November 2020 - January 2021
GetMega	Bangalore
<ul style="list-style-type: none">• Joined the Growth team as a Full Stack Developer, began working in ReactJS and Go (*had to leave due to financial breakout of the company)	
Software Development Engineer	June 2018 - Feb 2020
Apple	Hyderabad
<ul style="list-style-type: none">• Worked as a core back-end developer in Registration, Access Management & Provisioning team, focused on a set of applications which grant and manage access of users to various applications across apple.• Got a hands-on experience of various technologies like spring, spring-boot, elastic search, oracleDB etc.• Contributed to proof-of-concept of Augmented Reality(AR) based internal navigation application.	
Research Intern	Summer 2017
Samsung R&D Institute	Noida
<ul style="list-style-type: none">• Developed an internal search tool to find the most relevant previously resolved PLM issues using a variant of BM25 scoring function to rank the issues for a given query, based on keywords	

RESEARCH EXPERIENCE

Smart-phone based digitization of printed books	Bachelor's Thesis
Guide: Prof. Shivaram Kalyanakrishnan and Prof. Siddhartha Chaudhuri	IIT Bombay
<ul style="list-style-type: none">• Our team collectively worked towards building an interactive smart-phone application to digitize textual content in printed books. The idea is to place the smart-phone a certain height above the book and take pictures using selected speech commands.• We focused on key problems such as efficient offline speech recognition, segmenting out a single page and handling the curvature of the page for a better OCR accuracy.• Built a limited speech command classifier using CNN on spectrograms of one second long custom commands collected from various people, an idea inspired from simple audio recognition in tensorflow.• Developed a method to automatically extract single page images of left and right part from captured two page image which later are fed to a de-curling engine which works based on a pre-trained Neural Network model, giving us the flat page as output• Collected images of 20 pages each from 12 books in different languages along with corresponding ground truth digital content using the built application at a rate of 14 pages/minute with repetition rate of 2 per 10 pages and created datasets for testing	

KEY PROJECTS

‘Order smarT’ - a Multi-Vendor Pickup/Delivery App

March 2020 - October 2020

Independent Project involving couple of other friends — just for the pandemic

Remote

- Contributed to the design and development of ‘Order smarT’, a delivery/pickup application supporting customers and local stores during the pandemic.
- Project included UI/UX, Back-End & Architecture Design, Development and Deployment of four applications (customer/store/delivery/admin) for both Android and iOS platforms.
- Hands on experience with React-Native, Ionic, MongoDB, Node.js, Redux Storage, Firebase, Heroku etc.
- Apps include powerful features such as Phone/Email Authentication, Push Notifications, Navigation and serves for Multi-Vendor E-commerce products ordering, inventory management and pickup/delivery facilities.

Efficient regret-minimization algorithms for multi-armed bandits

Autumn 2017

Guide: Prof. Shivaram Kalyanakrishnan

IIT Bombay

- Studied various algorithms like greedy, e-greedy, UCB, KL-UCB and β -UCB for solving typical exploration versus exploitation dilemma in multi-armed bandits and implemented the same
- Performance of these algorithms are tested on various instances of multi-armed bandits and verified convergence of cumulative regret over large horizons

Citrus Yield Prediction

Autumn 2016

Guide: Prof. Ajit Rajwade and Prof. Suyash P. Awate

IIT Bombay

- Implemented an algorithm for estimating count of ripe fruits on citrus plants
- Used circular hough transform(CHT) to detect circular objects in the image for guessing fruits. Maximal patches from those circular objects are taken and classified into fruit or leaf by using a pre-trained SVM classifier

Institute Event Management System

Autumn 2016

Guide: Prof. S.Sudarshan

IIT Bombay

- Developed an application for managing various events in an institute conducted by different clubs
- Used PostgreSQL database, JAVA for back-end on server side, UI and client side are done in Android
- Implemented authentication and multiple levels of access control for users, admins, managers etc.

KEY COURSES

- **Theoretical CS:** Data Structures & Algorithms, Design & Analysis of Algorithms, Discrete Structures, Automata Theory, Foundations of Intelligent and Learning Agents
- **Applied CS:** Digital Image Processing, Artificial Intelligence
- **Systems:** Databases, Operating Systems, Software Systems, Implementation of Programming Languages, Computer Architecture, Computer Networks, Network Security and Cryptography
- **Mathematics:** Numerical Analysis, Linear Algebra, Differential Equations, Calculus

OTHER COURSE PROJECTS

- **Unsupervised Image Classification:** Implemented kmeans algorithm in MATLAB for classification of remotely sensed satellite image into various land cover classes
- **OS Improvements:** Introduced new features like Copy-on-Write fork and priority based process scheduling into the xv6, a Unix-like teaching operating system
- **Face Recognition:** Studied Principal Component Analysis(PCA) and implemented face recognition using eigenfaces in MATLAB

SKILLS

- **Languages:** C++, C, Python, Java, Go
- **Web Development:** HTML, CSS, JavaScript, PHP

EXTRACURRICULAR

- Successfully completed a course NSO in Volley ball at IIT Bombay
- Worked as organizer in Techfest 2015, helping lectures of eminent personalities
- Interested in playing chess and solving puzzles such as sokoban and rubik’s cube