

GANESH RAM KESARLA SHANTHARAM

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EDUCATION

CARNEGIE MELLON UNIVERSITY, SCS (October 2019)

Professional Masters in CS/Software Engineering

Courses: 17-651 Models of Software Systems, 17-652 Methods: Deciding What to Design, 17-653 Managing Software Development, 15-513 Introduction to Computer Systems, 16-720 Computer Vision; Engineering Data-Intensive & Scalable Systems, DevOps

Indian Institute of Technology Roorkee (May 2015)

Relevant Coursework (GPA 9.6/10)

Computer Systems & Programming, Electrical Science, Fundamentals of Electronics, Mathematics-1, Mathematics-2, Numerical Methods, Optimization Techniques, Engineering Computation, Process Automation, Physics-1, Physics-2

SELECT PROJECTS

Facial Analysis - Emotion Recognition

Technologies - Tensorflow, Python, EC2-AWS

This project lays the foundation for a business idea: "capturing natural expressions of people while watching videos". Here, a convolutional neural network is trained to output certain confidence across a set of emotions, for a given input image.

Smart Office (IoT @ IITR)

Technologies - Raspberry Pi, Arduino, Zigbee, Apache, PHP, JS

In order to reduce wastage of electricity at the student activity center, built a wireless network of sensors and actuators to monitor and control all the appliances over a web application. The sensor data retrieved in real-time was fed into a learning algorithm to understand the usage pattern and control the devices autonomously. The energy consumption decreased by 12%.

WORK EXPERIENCE

December 2019 - Present | Tech Lead, [KreditBee](#) CTO's Office

- Leading a team of full stack engineers working in React, GoLang, Redis, MySQL, AWS.
- Module Lead for the following features: Video KYC, GST, Mobile Trust Score, Electricity Bill, ITR V, Form-16, E-NACH.
- Developed an inhouse micro-frontend framework; Built a CI to lint, test and deploy apps on to dev/stage/UAT/Blue/Green envs.
- Established coding standards tailored to KreditBee.
- So far conducted >70 Technical and Behavioral Interviews for prospective Junior, Senior Software Engineers and Tech Leads.
- Report to the CTO.

December 2018 - August 2019 | Factotum, [Mayim](#)

October 2017 - June 2018 | Freelancer

Elicited Requirements, Designed Product Architecture, and Built the complete IoT and Web stack for DigiB that broadcasted location-based ads in tourist buses; Worked with BeatRoute, a logistics startup to develop a demand predictor (DNN) for better inventory management of local grocery stores.

May 2017 - September 2017 | Full Stack Engineer, CloudxLab

As a Full Stack Developer, built applications in Django, Angular & Bootstrap; Built a code evaluation application that involved a browser-based terminal, SSH Client, and a cloud-based REPL environment.

September 2016 - April 2017 | Founder & CEO, Entrochef

Entrochef is an online marketplace for on-demand home-cooked meals. The model was similar to Uber and Airbnb but in the food space. Based on the user's location, home-cooked meals in the vicinity could be viewed and ordered. (Transformed the idea into → ~160 daily users).

May 2015 - September 2016 | Full Stack Engineer, AUTONINJA

Caused a ~10% increase in the revenue per client by solving a problem pertaining to parallel logins; As a Full Stack Developer, carried out requirement analysis with stakeholders and built end to end web applications involving Webhooks, Websockets, Audio Streaming, Internet Telephony, Authentication, Design of Databases, APIs, UI & UX; Owned repositories of 2 core features; Conducted Technical Interviews & Training Sessions for Freshers. Lead development of an internet telephony feature that caused the company to scale to many clients.

May 2014 - July 2014 | Computer Vision Internship at QORQL, Digital Healthcare Startup

Researched and developed edge detection algorithms that were used in a scanner app on android. Developed a custom heuristic algorithm to identify paper documents. Technologies - Matlab, OpenCV, Java

SKILLS: GoLang, React, MySQL, Javascript, Python, DevOps, Product Design and Engineering, Java (Familiar)

(Please refer to my [website](#) for a comprehensive list of projects, accomplishments and leadership experience.)

ACCOMPLISHMENTS [[Child Prodigy](#), [Tech Competitions](#), [Academic Awards](#)]

LEADERSHIP EXPERIENCE [[Secretary of Artificial Intelligence Society](#), [Class Representative](#), [Teaching Assistantship](#)]

SPORTS

Enjoy skating and was a prominent member of the In-line skating team of HEC at IIT Roorkee.