Harshilkumar Patel – University of Texas at Arlington (UTA) **Contact:** 281.939.1966
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Motivated professional completing Masters in Computer Science degree. Experienced in Agile and Scrum environments. Supports team administrative, project coordination, design and programming needs. Expert in diverse programming languages. Interested in software engineering internship positions requiring interested candidates in Deep Learning, Software Engineering and Cloud Architecture.

WORK EXPERIENCE

Research Assistant - University of Texas, Arlington **Feb 19 - Present**
Autonomous Driving Car (Linux, Python, ROS, Jetson TX2, Tensorflow)
Integrated ROS on Jetson TX2, an NVIDIA AI platform for self-driving car model. Used LiDAR, ZED Stereo Camera data inputs and designed Deep Learning Network with an accuracy of 84%. Currently working on further improving the architecture by implementing Convolutional Neural Networks.

Software Engineer - CodeJedi **July 17 - Nov 18**
Cactus (Python, Go, Nodejs, FreeSWITCH, Kubernetes, Docker, CI/CD)
Developed client sdk for cloud infrastructure deployment for SIP / VOIP calls. Created automated CI/CD pipelines for build, testing and deployment.
Actively managed, improved, cloud infrastructure on GCP. Built and deployed Docker containers for microservices, improving internal workflow, increasing scalability, and optimizing speed.
Omniengage (Slack API, GCP App Engine, Cloud Sql)
Implemented an efficient system to connect customer chats endpoints to agents on slack.
Crypticup (Swift, Java, Python, Sumo Logic, Firebase)
Refined the existing apps for the project to include newer designs and improved the feature set over 4 different separate major releases. Improved crash reporting and deployed a better logging system across the project. Reduced crashes by over 70%.

Software Engineering Intern - QwikInnovate **April 16 – June 17**
QwikGear (Python, Django, AngularJs, Heroku, Aws, Unit Testing)
Reworked and re-designed management tools for employees. Moved a legacy system, to newer web standards using rest-api services for efficient customer interaction/management. Reworked the customer messaging system, for synchronized delivery applications.

Technical Lead - Limehoney **Aug 15 – Feb 16**
Led the Web application from prototype to production. Delivered continuous improvements during the deployment stages. Automated processes to resolve communication challenges with clients and customers. Product was delivered to over 250+ clients and saw over 100 new customers every week during its initial stages.

PROJECTS

Limehoney (Python, Django, AWS, Heroku)
Platform for health consultants and seekers. Programmed the backend infrastructure during the initial stages, and scaled it well with 50% month over month user growth. Devised a search api for adaptive query system for content and business requirements.
Botonomous [Open-Source] (Python, Bot Api, GCloud SQL)
Botonomous aimed to serve as a mechanism to control the conversations that bots will have with humans. The cross platform system aimed to provide a common endpoint for vast network of communication channels.
HitchHiker (Swift, Java, Python, Sumo Logic, Crashlytics)
Migrated the existing IOS project to Swift and improved the code quality by 80%. Helped create and maintain clear code ethics and concise documentation. Migrated the source feed from a php system serving html pages to using rest-api using python. Improved crash reporting and logging systems for end point authentication issues.
Cashballpool (Unity)
Pool game based on the unity platform. Implemented the payment cycle in the Unity project and deployed a micro service for pass through to credit providers. Implemented additional scenes required for the payment cycle.

ACADEMIC PROJECTS

Registration platform for Institute Conference Events:
Built an efficient, fast single page application for researches, attendees paper submissions. Running in production to showcase highlights and accept invites for the research conference NCATM.
Active Tracking of Familiar Faces:
Developed a tracking system for very frequent familiar faces, using Opencv and based on neural networks to actively match features.
Don't Crawl in Web:
Detecting possible repeated ideas or semantically sound text. Built an application over stanford nlp datasets using Numpy and Clips to normalize data for caching and indexing. Project used an MVC architecture for deployment and data flow. The project was deployed on an AWS/EC2 instance and served cached content using S3 storage for media and Postgres database for indexed data.

EDUCATION

Master's in computer science, University of Texas at Arlington, Texas **Dec 2020**

- Neural Networks, Machine Learning, Data Analysis and Modelling, Distributed Systems

Bachelor of Engineering in Computer Science, Mumbai University

- Network Security, Computer Networks, Algorithms and Data Structures, Cloud Computing, Advanced Database, System Programming, Soft Computing, Machine Learning and other areas.

SKILLS

Languages: Python, Swift, Java, GoLang, C++, C#, Javascript.
Platforms: Android, IOS, Web Development, CI/CD, Unity.
Tech: Django, Jquery, AngularJs, SQLite, Git, Kubernetes, Docker, Heroku, AWS, Azure.
Skills:. Web / Mobile App Development, Server Side DevOps Engineering, Unit Testing, Agile Development.
