

Harshilkumar Patel

University of Texas at Arlington (UTA)

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Motivated professional pursuing **Master's in Computer Science** degree. Experienced in Agile and Scrum environments with demonstrated history of working in web / mobile / cloud infrastructure & deployment engineering. Actively seeking full time software engineering internship positions focused in DevOps and Software Engineering for May - August 2020.

SKILLS

- **Languages:** Python, Swift, Java, GoLang, C++, C#, SQL, Javascript.
- **Platforms:** Android, IOS, Game, 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.

EDUCATION

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

Dec 2020

- Advanced Algorithms, 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, Soft Computing, Machine Learning and other areas.

WORK EXPERIENCE

Research Assistant and Project Lead - University of Texas, Arlington

Feb 19 - Present

- **Autonomous Driving Car (Linux, Bash, Python, ROS, Nvidia Jetson, Tensorflow, Jupyter)**

Integrated ROS on Jetson TX2, an NVIDIA AI platform for self-driving car model. Used sensory data inputs and integrated NN models to provide improvements with an accuracy of 84%. Working towards improving the models by implementing CNN / RNN for industrial applications.

Software Engineer - CodeJedi

July 17 - Nov 18

- **Cactus (Python, Go, Nodejs, FreeSWITCH, Kubernetes, Docker, CI/CD)**

Contributed to developing client sdk for cloud infrastructure deployment to route SIP / VOIP calls. Created automated CI/CD pipelines to build, test and deploy. Actively managed, improved, cloud infrastructure on GCP. Built and deployed Docker containers for microservices, improving internal workflow, increased scalability, and optimize network flow.

- **Omniengage (Slack API, GCP App Engine, Cloud Sql)**

Designed and built chat bots to connect customers to agents over slack.

- **Crypticup (Swift, Java, Python, Sumo Logic, Firebase, Crashlytics, Maven / Xcode)**

Refined and improved design, feature set for mobile apps over 4 major releases, reducing crashes by over 40%. Re-worked existing crash reporting and logging across the project, improving debugging and active troubleshooting.

Software Engineering Intern - QwikInnovate

April 16 – June 17

- **QwikGear (Python, Django, AngularJs, Heroku, Aws, Unit Testing)**

Created administrative tools for employees. Created single page administrative dashboard to monitor business requests and inventory management. Improved email and other communication streams for efficiency.

Technical Lead – Health in Hands

Aug 15 – Feb 16

- **Limehoney (Python, Django, AWS, Heroku)**

Led the web application from prototype to production. Delivered continuous improvements during development stages. Automated processes to resolve communication challenges with 50% month over month growth.

PROJECTS

Botonomous [Open-Source] (Python, Bot Api, GCloud SQL)

Documented changes over several releases. Added and improved api for several communication channels.

HitchHiker (Swift, Java, Python, Sumo Logic, Crashlytics)

Migrated the existing IOS project to Swift and improved the code quality by 80%. Redesigned and implemented api design. Improved crash reporting and logging systems for end point authentication issues.

Cashballpool (Unity)

Implemented the payment cycle in the unity based pool game, deployed services for pass through to credit providers and active monitoring of players improving activity tracking.

ACADEMIC PROJECTS

- **Registration platform for Institute Conference Events** – django crm web interface for paper submissions, NCATM.
- **Active Tracking of Familiar Faces** – tracking familiar faces using opencv, python.
- **Don't Crawl in Web** - NLP tool to filter plagiarized text in search results using clips, numpy.