

## EDUCATION

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**College Station, TX** **Texas A&M University** **August 2018 – May 2020**

- Master of Computer Science. **GPA: 4.0/4.0**
- Major Coursework: Artificial Intelligence; Cloud Computing; Information Retrieval; Neural Networks
- Graduate Assistant (GA) in the Department of Information Technology, Division of Student Affairs

**Calicut, India** **National Institute of Technology** **July 2012 – May 2016**

- Bachelor of Technology in Computer Science and Engineering. **GPA: 9.37/10.0**

## LANGUAGES & TECHNOLOGIES

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- C++ (Proficient), Java (Prior Experience), C, Python, MySQL, Shell Scripting, PHP, HTML, CSS
- Dynamo DB, S3, Lambda functions, Elasticsearch, Git, JavaScript, jQuery

## EXPERIENCE

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**Software Engineer** **Microsoft** **June 2020 – Present**

- Part of [Visual Studio Codespaces](#) team. Codespaces provides cloud-powered development environments.

**Software Development Intern** **Amazon Inc.** **June 2019 – August 2019**

- Developed and launched highly-scalable internal service (**1000 TPS**) based on service-oriented architecture (SOA) using various AWS technologies like DynamoDB, Lambda, S3, etc. (Java, Python, SQL, shell).
- Automated data migrations with distributed job scheduling and built a responsive single-page application (SPA) in React.js for the service which is used for analytics.

**Software Engineer, R&D** **Sandvine Technologies** **June 2016 – July 2018**

- Automated parameter calibration in fuzzy control system by developing service using C++ capable of monitoring network traffic over **100,000 locations**.
- Designed REST APIs for traffic shapers in C++ enabling dynamic policy enforcements without system reloads. This saves **9 hours** (average) of maintenance time per month.
- Developed hash map and timers based internet traffic classification mechanism in C++ improving identification of applications that rely on third-party services by **90%** (on average).

## PROJECTS

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- **Reverse Image Captioning:** Developed [Generative Adversarial Network \(GAN\)](#) which takes textual description as input and generates image fitting the description. (Python, PyTorch)
- **Deep Person Re-Identification:** Developed occlusion immune [Re-Id model](#) using Random Erasing and reduced pose variation influence by using Pose normalized Generative Network(GAN). (Python, PyTorch)
- **Decentralized Howdy:** Developed a [decentralized application](#) for student record storage based on smart contracts using [Solidity](#).
- **Multikernel Simulation:** Enhanced memory management unit of Xen hypervisor by adding in-memory table to prevent rollback attacks and published the research in [IEEE ISCBD 2017](#). (C, C++)

## ADDITIONAL INFORMATION

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- **Leadership:** Treasurer (2018 – 2019), Computer Science Graduate Student Association (CSEGSA)
- **MOOCs:** Neural Networks and Deep Learning by [deeplearning.ai](#); Structuring Machine Learning Projects by [deeplearning.ai](#); Machine Learning by [Stanford University](#) on Coursera; Design Patterns on [Udemy](#)