

Neel Akash

neel_akash_ms@outlook.com | +1(979)344-8175

EDUCATION

TEXAS A&M UNIVERSITY

MASTERS IN COMPUTER SCIENCE
Aug 2022 - current | College Station
Cum. GPA: N/A

NIT - TRICHY

BTECH IN COMPUTER SCIENCE
Minor in Management Studies
May 2016 - 2020 | Trichy, India
Cum. GPA: 8.48

MAHARISHI VIDYA MANDIR

CBSE | Science with CS
Grad. May 2016 | Chennai, India
Graduating Percentage : 96.4%

LINKS

Github:// [theofficialneel](#)
LinkedIn:// [NeelAkash](#)

COURSEWORK

GRADUATE

Software Engineering
Machine Learning
Deep Reinforcement Learning

UNDERGRADUATE

Data Structures and Algorithms
Data Comm. and Networking
Data Warehousing and Data Mining
Principles of Cryptography
Principles of Compiler Design
Image Processing

SKILLS

PROGRAMMING

Languages :
C/C++ • Python • SQL
JavaScript • Java • Kotlin

Frameworks :

JQuery • React • Redux • MobX
Laravel • Express • Django • Spring

Familiar :

GNU/Linux • Git • Tomcat
Docker • Gradle • Android Studio

AWARDS

2017 2nd - Shark Tank Event, E-Cell
2016 top300 - KVPY fellow

EXPERIENCE

TEXAS A&M UNIVERSITY | STUDENT TECHNICIAN

Sept 2022 - current | CS 410/611 Operating Systems
• Technical assessment of the class (120+ students) under Prof. R Bettati

ARCESIUM (D.E. SHAW)

Software Engineer | July 2020 - Present | Hyderabad
Created a core accounting application from scratch to manage crucial financial assets.
• Handled all aspects of Software Engineering for the project, including deployment using CI-CD, containerization with Kubernetes, logging and metrics collection using ELK and various other AWS and Apache Tech.
• Used by 80% of the company as source of information with improved reliability & scalability and increasing performance to cost ratio by 50%

Software Engineer Intern | May - July 2019 | Hyderabad

Created an application to handle financial reports like balance/income statements.
• Used MobX in frontend for state management and backend in Java with spring
• Handled code quality with testing using JUnit, Mockito, Jest and Enzyme.

GMETRI STUDIO | WEB DEVELOPER INTERN

gmetri.com | May - June 2018 | Bangalore
Providing VR/AR/XR solutions to big clients like Bosch and Amway
• Improved the VR/AR app using React360 and ThreeJS to cater to client needs.
• Created a Data-flow Graph creator to link components using react-diagrams.
• Stack used - React+Redux for frontend, Express+SQL with Docker for backend.

NTALENTS AI | FULL-STACK DEVELOPER INTERN

ntalents.ai | December 2017 | IIMB
A start-up incubated in NSRCEL, IIMB which creates an AI based talent assessment.
• Created an application to collect and assess data for a model to work on
• Utilized WebRTC to handle video data and Celery+RabbitMQ for task queuing

DELTA FORCE | LEAD STUDENT DEVELOPER

delta.nitt.edu | July 2017 - July 2020 | NIT - Trichy
The programming club of NIT Trichy, handling the tech side of the institute
• Maintaining the Institute's official website as part of the WebTeam.
• Handling Festember and Pragyan fest sites using a built CMS+Laravel.
• Worked on PhD Admissions and Campus Ambassador Portals.

PROJECTS

CODE CHARACTER | JAN - FEB 2018 & 2019

code char | renderer source
AI programming challenge where players control units in a RTS game using code.
• 10,000+ matches by 1,300+ players from over 70 countries.
• Collaborated on the C++ simulator (LLVM) which processes player code
• Created the Renderer for game simulation using PixiJs, React and protobuf.

CONGESTION CONTROL IN QUIC PROTOCOL | JAN - JULY 2020

A research project to improve the QUIC Protocol, published in ICCICA-21.
• Implementing improved congestion control algorithms tested against simulated traffic, using event and performance based algorithm
• Proposed methods decreased packet loss by 36% & increased throughput by 11%