


Arjuna Reddy

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Summary

I am a highly motivated and experienced electrical engineer with a passion for research and innovation.

I am a graduate student at San Diego State University pursuing a Master's degree in Electrical and Computer Engineering, where I am working on developing a fully automatic photogrammetric approach for measuring soil surface roughness index from 3D pictures using MATLAB. I have a Bachelor of Engineering in Electronics and Communications from Visvesvaraya Technological University (VTU) in Bengaluru, India. My skills and coursework include:

Programming Languages: Proficiency in C, Python, MATLAB, SQL, Bash

Software and Tools: Experience with MATLAB, Cadence, Cisco Packet Tracer, Wireshark, VirtualBox, GCP, AWS, Git, JIRA

Networking and Cloud: Knowledge of networking protocols like TCP/IP, DHCP, ARP; implemented cloud solutions on GCP and AWS.

I have previous experience working as an Associate at Pricewaterhouse Coopers (PwC), where I spearheaded platform testing for multiple clients and collaborated on four major client onboardings onto PwC's Perform Plus platform. I am also a recipient of the Best Project Award for Smart Campus Navigator at the Department level during the final year project seminar at B.N.M Institute of Technology (under VTU).

I am confident that my skills and experience would be a valuable asset to any company. I am a hard worker and I am always eager to learn new things. I am also a team player and I am always willing to help others. I am confident that I can make a significant contribution to your company.

I am eager to start my career as an electrical engineer and I am looking for a position where I can use my skills and experience to make a positive impact. I am open to opportunities in a variety of industries. I am also interested in working in research and development.

If you are interested in learning more about me, please feel free to contact me. I would be happy to answer any questions you may have.

Experience



Instructional Assistant

San Diego State University

Sep 2023 - Present (1 month)

1. Supporting lectures and over 40 students by grading assignments, holding office hours, and developing tutorial materials.
2. Facilitate technical learning for electrical engineering students through one-on-one tutoring, exam proctoring, and preparing lab equipment.
3. Maintain assignment submission portal, grade coursework, invigilate exams, hold student hours and provide 1-on-1 mentorship



Graduate Research Assistant

San Diego State University

Apr 2023 - Jul 2023 (4 months)

1. Conducting statistical analyses on the measured soil surface roughness index using MATLAB, identifying significant correlations between surface roughness and other key soil properties.
2. Developing and refining algorithms in MATLAB to automate the measurement of soil surface roughness index from 3D pictures, resulting in a reduction of time spent on data analysis by 50%.



Associate

PwC Acceleration Centers

Sep 2021 - Jul 2022 (11 months)

1. Collaborated with cross-functional teams to optimize cloud infrastructure for 10 clients, resulting in an approximate average cost savings of \$50K per client annually.
2. Optimized cloud infrastructure for 20+ clients resulting in a 50% decrease in monthly costs and a 25% increase in system performance.
3. Collaborated with cross-functional teams to implement best practices for Google Cloud Platform usage, resulting in an overall improvement of service delivery by 40%.
4. Implemented Git-based Continuous Deployment strategy for multiple Fortune 500 client, resulting in a 30% reduction in deployment time and a 15% increase in successful deployments.
5. Orchestrated the implementation of a comprehensive security incident response program across PwC's Cloud Management Services, resulting in a 30% reduction in security incidents and an increase in client trust.
6. Oversaw the administration of Auth0 platform access for over 50k users, implementing multi-factor authentication and threat detection protocols that successfully prevented over 95% of attempted unauthorized access.



Administrator

Cognizant

Jul 2019 - Dec 2020 (1 year 6 months)

- Performing daily maintenance, including monitoring alerts, backups, managing disk space, and maintaining database objects
- Providing database security administration such as User IDs, Passwords, and roles

Education



San Diego State University

Master's degree, Electrical, Electronic and Communications Engineering Technology/
Technician

Aug 2022 - May 2024



Visvesvaraya Technological University

Bachelor of Engineering - BE, Electrical, Electronics and Communications Engineering

Aug 2015 - Jul 2019



Deeksha Centre for Learning PU College

2013 - 2015
11th and 12th Grade



Sudarshan Vidya Mandir

ICSE

2002 - 2013

Honors & Awards



Best Project Award at Semester Level at the Innovative Project Lab Winter Competition-2017 - BNM Institute of Technology

Nov 2017



Best Project Award at semester Level at the Innovative Project Lab Winter competition-2018 - B N M Institute of Technology

Apr 2018

This was given for the project- Solar panel controller using MSP430



Best final year project award at department level at the final year project demonstration held at BNM institute of technology - BNM institute of technology

May 2019

The best project was awarded for the smart campus navigator, which was implemented to help one navigate within a small campus where GPS navigation is not viable