ANEESH DANDIME

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University of Maryland | College Park, MD — *MAY 2023*
M.Eng in Robotics — *Cum. GPA: 3.89 / 4.0*
Relevant Courses: Computational Imaging, Computer Processing of Pictorial Information, Foundations of AI and Deep Learning, Perception for Autonomous Robots

Birla Institute of Technology and Science | Pilani, Goa, India — *JULY 2019*
B.E. (Hons.) in Mechanical Engineering and M.Sc. (Hons.) in Chemistry — *Cum. GPA: 7.89 / 10.0*

TECHNICAL EXPERIENCE

ServiceNow, Hyderabad, India | Software Quality Engineer | Jun 2019 – Jul 2021
– Member of Vulnerability Response team working on automatic grouping and assignment of vulnerabilities detected on clients' network by third-party scanners, based on customisable grouping and assignment rules, to improve the flow of remediation process.
– Mocked an application's REST endpoints using Express and NodeJS to improve test-ability, detect subtle race conditions, and catch data handling and mapping issues during injection of third-party data into clients' database.
– Developed and documented comprehensive test case plans and scripts including scenarios for multiple products on the ServiceNow platform as well as integrations with third-party applications to reduce risk of bugs and improve Root Cause Analysis (RCA) process.
– Performed functional, Non-Functional, Access Control List (ACL), Domain Separation, Cross-Browser Integration and Security testing to cover all avenues of possible issues and to deliver a high quality product every release.
– Automated test plans using latest tools based on Java Selenium, TestNg and JUnit testing frameworks improving test code coverage from 60% to more than 80%.

Clinix, Hyderabad, India | Software Developer | Jan 2021 – Apr 2021
– Worked in a fast paced startup environment to develop the appointment scheduling page for the Clinix app using Flutter (Dart) and Cloud Firestore which brought in 500 customers and 200 consultations in the first 2 months of launch, and setup 20 e-clincs in rural Indian villages.

Reflexis Systems Pvt. Ltd., Pune, India | Software Development Intern | Jan 2019 – Jun 2019
– Built a tool to parse and convert massive Unicode language translation data received from customers, in Excel sheets, to manageable key-value pair files that are consumed by the main application to translate pages from English to any supported language.
– Developed a front-end solution in React to allow easy access to the above mentioned tool.

BITS, Goa, India | Teaching Assistant | Jan 2016 – May 2016
– Conducted labs, tutorial classes and quizzes for a batch of 100+ students in topics including C programming, shell scripting and basic algorithms.

TECHNICAL PROJECTS

Fitting event camera data to SIREN | Prof. Chirstopher Metzler | Aug 2022 – Dec 2022
– Worked on finding an implicit neural representation for event camera sensor data using SIREN multi-layer perceptron model with periodic activation functions.

Face swap | Course project | Jan 2022 – May 2022
– Implemented a face swap filter using dlib from opencv to find facial landmarks. Used both Delauney triangulation and thin plane spline methods to warp one face to another and compared the methods.

Auto-panorama | Course project | Jan 2022 – May 2022
– Used Harris corner detector with Adaptive Non-Maximal Suppression (ANMS) to find corners and match features between two different images of the same scene. Used RANSAC to remove outliers from the matching features and find a robust homography. Then, stitched the images together with poisson's blending to make a panorama.
– Also used supervised and unsupervised HomographyNet to estimate the homography instead of classical methods and compared the results.

Structure from Motion | Course Project | Jan 2022 – May 2022
– Reconstructed a 3D scene from a series of pictures while simultaneously obtaining camera poses, fundamental and essential matrices of the monocular camera using triangulation, perpective-n-points and bundle adjustment.
– Used SFMLearner, an unsupervised learning framework, for depth and camera motion estimation from unstructured video sequences.

Plug-n-Play ADMM | Course project | Aug 2021 – Dec 2021
– Implemented Plug-n-Play ADMM algorithm in python for two image restoration problems - deconvolution and compressive sensing - on 128x128 grayscale image. Evaluated and plotted PSNR values for restored image as a function of parameters involved in the algorithm.

SKILLS

Languages
Java
C++
JavaScript
Python
HTMl
CSS
Shell
SQL
Angular
Spring MVC

Software &Libraries
ROS
MATLAB
PyTorch
OpenCV
TensorFlow
JUnit
Selenium
Git
Jenkins
TestNG