Revanth Harinarthini

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EDUCATION

Masters in Computer Science ASU, Tempe, AZ 3.89 GPA — Aug 2022 - May 2024
BE Hons in Computer Science BITS Pilani**,** Goa, India 8.46 GPA — Aug 2016 – May 2020

SKILLS

Java, JavaScript, C#, Python, C/C++, HTML, CSS, Angular, Backbone, Flask, Node.JS, Express.JS, MySQL, Perforce, Git, AWS services, Docker, .NET Framework, .NET Core, Angular, Django Framework, Handlebars.js, Neural Networks, MongoDB.

PROFESSIONAL EXPERIENCE

Edison Engineer: GE Healthcare, Bangalore, India — Oct 2020 – Aug 2022

- Improved performance of the Information lifecycle module by 70% by distributed service computing and microservice architecture based on the .NET Core framework.
- Devised and deployed a DICOM viewer and a patient browser using Docker in less than 2 months.
- Created visualizations using Angular and ng2 charts to assist hospital administrators in data analysis.
- Developed a neural network for brain matter segmentation with the highest dice score among all models. This project mainly focused on diagnosis and treatment planning.
- Increased quality and reliability by migrating the code base and implementing a CI/CD pipeline using Gitlab and Jenkins
- Designed a graph database storing service information and a chatbot using AWS Lex to retrieve as required resulting in a drastic reduction in time to reference manuals for information.

Software Engineering Intern: BlueJeans by Verizon, Bangalore, India — Jan 2020 – Sep 2020

- Resolved bugs in Django-based middleware to improve system reliability.
- Implemented APIs for automated email functionality, improving user experience and convenience.
- Designed and implemented logic to serve users with local time in email meeting invites, improving accuracy and communication.
- Developed web pages using React and BackboneJS to display user meeting recordings and administrative information, improving data accessibility and management.

Software Engineering Intern: JP Morgan Chase and Co, Hyderabad, India — May 2019 – Jul 2019

- Designed and developed a windows app that automatically updates any other app on the client system with predefined settings in a wave-controlled manner.
- Employed SQL database and ASP.Net to store and communicate information about product updates and the latest settings.

RELEVANT PROJECTS

Quantify CIMT and Lung Image Segmentation, ***Course Project – Intro to Digital Image Processing*** — Aug 2022 – Dec 2022

- Quantified Carotid-Intima Thickness by developing the Snakes tool combined with GUI based on MATLAB enhancing users with more control over snake force parameters.
- Validated the best performance of U-Net and U-Net++ on Colonoscopy Videos and Pneumothorax datasets which are serious diseases and can easily miss due to technical or professional errors.

Android Malware Detection, ***Course Project – Software Security*** — Aug 2022 – Dec 2022

- Constructed an automated classification tool extracting several details from APKs and determining if the application is malware by experimenting with XGBoost, Adaboost, SVC, Random Forest, and Voting Classifiers
- Best performing model achieved an accuracy of 0.96 on the CIC-AndMal2017 dataset.

Predict physicochemical properties of small molecules, ***Study Oriented Project*** — Aug 2019 – Aug 2022

- Pioneered a tool to generate a Bond Order matrix from SMILES notation and convert back to SMILES in O(n) time complexity to capture all molecular information better than other matrix representations.
- Developed a variation of MPNN with one extra layer using Keras to improve accuracy and reduce the cost of molecular property prediction.
- Achieved a 12% increase in accuracy compared to basic MPNN network on QM9 dataset.
- Presented the project at the AI/ML in Drug Discovery track at the 4th edition of ICDD 2022, organized by Schrodinger, and received 2nd prize.