Avinash Jayakar

Software Engineer

EXPERIENCE

Staff Software Engineer, Itron Inc.

July 2019 - Present

- Migrating legacy meter data management solution to a web application for better monitoring/usability by the utilities.
- Built several tools for performance testing reducing inter-team dependency.
- Automated deployment and testing of web app on a CD pipeline in Azure to run regression tests weekly.
- Automation of the web application using protractor framework.
- Automated tests for rich client meter data management application using tool called Worksoft Certify.

Graduate researcher, NITK

May 2018 - July 2018

- Built a cheap way of reconstructing meta carpal bone to evaluate bone density and diagnose if the patient has osteoperosis.
- The comparison of a reconstructed bone shaft with the ground truth shows relative volume error of 0.60% and 1.08%, and mean P2S error of 0.21 mm and 0.15 mm for the outer bone and inner bone, respectively.
- CCT measured from the PA projection of the reconstructed bones shows mean error percentage of 11.18%.

EDUCATION

National Institute of Technology, Karnataka

August 2015 - May 2019

Passed out with a degree in Electronics and communication with CGPA 7.4.

Adarsh Pre-University Science College

June 2013 - May 2015

Passed out in Physics, Chemistry, Mathematics and Statistics with 98.4% from Karnataka State Board of Secondary Education.

PROJECTS

Semantic segmentation of roads using CNNs

May 2019

- Developed an encoder-decoder based CNN to do semantic segmentation of roads from satellite images, and evaluated against several other similar architectures.
- Used Massachusetts Buildings dataset and a custom annotated dataset generated by processing google maps.
- Model predics the road paths in satellite images with accuracy of 76.51%

Phone
+91 9483411330

E-mail
avithemad@gmail.com

Address
Plot #33, Green Park
Vidyanagar
Hubli - 580031

SUMMARY

Currently working on building a web app for meter data management, responsibilities include full stack development, configure CI/CD pipelines and automation testing of the app. Interested in building robust backend services and learning to build good UI/UX.

SKILLS

C | C# | JavaScript | TypeScript | HTML | CSS | Angular | Python | Protractor/Playwright | ASP.NET core

ACHIEVEMENTS/CERTIFICATIONS

IEEE publication
Cortical Volumetry Using 3D Reconstruction of Metacarpal Bone from Multi-View Images

OTHER

Game design | 3D modelling | Neural networks | Cycling | Running | Music