Nithin Murali

im.nithinm@gmail.com | +91 7045259536 | LinkedIn: nithinmurali | Github: nithinmurali

EXPERIENCE

Avira | Specialist Backend Developer   Feb 20 - Ongoing
Worked on Thread Analysis Grid developing new Detection Modules
- Developed and integrated several Detection Modules which scales to serve **100k** requests per second
- Deployed Detection services with Ci/CD and AWS code pipeline into AWS ECS
- Migrated and redeployed complete codebase into python3 and new workflow saving over **50k€ pm**

Oracle | Application Developer 2   Jul 18 - Feb 20
Building a framework for automated information retrieval from Unstructured documents using deep learning
- Core developer of IIR framework which was presented by SVP of Oracle at Oracle Open World
- Deployed IIR backend in a micro-service architecture, developed in Flask, Spring Boot
- Developed a custom document layout normaliser algorithm based on DL and rule based system
- Served as a member of the recruitment team responsible for interviewing new hires

NymbleUp | Backend Developer   Nov 18 - Aug 19
Developed a Machine Learning based **SaaS** Sales forecasting and analytics platform in Django
- Designed and Implemented **scalable** system using Django, Celery, Redis and PostgreSQL
- Developed a pipeline for testing, training and deploying forecasting models
- Deployed the overall infrastructure in fully automated CI/CD pipeline utilizing **Kubernetes** and **AWS** services

Technology Consultant Intern | ANI Technologies (OLA)   May 16 - Jun 16
- Saved **14+** man hours/week by Automating the workflow of dashboard updation from Hadoop servers
- Worked on adding customization layer to the messaging API, Developed a customer matching algorithm

Revisiting Ajanta | Developer   Jul 16 – Jun 18
- Developed a multi-platform app in **Unity** which facilitates Virtual Reality tour of Ajanta caves
- Led a team of 3 developers, worked as **system administrator** setting up a Linux server

EDUCATION

Indian Institute Of Technology, Bombay
Integrated Masters in Electrical Engineering; GPA: 7.48   2013 - 2018

KEY PROJECTS

Pygsheets | Open source library   Dec 17 - present
- Developed a python package that acts as a wrapper for the Google Sheets API, significantly reducing complexity
- Has **1.1k+** github stars and an active community

Tati | Android app for construction Industry   Apr 19 - Aug 19
- Developed and published an app and websuite for easing employee management and inventory/supplychain management
- App is developed in Kotlin, the dashboard is a SPA written in **vue.js** and uses Firebase as backend

AI Game playing Agent | Open source project   Nov 16 - Dec 16
- Developed a generic game playing agent based on **Reinforcement Learning**, which learns by playing the game
- Implemented **Deep Q convolutional Network** in **TensorFlow** and tested on Flappy bird

PUBLICATIONS

Keyboard Side Channel Attacks on Smartphones Using Sensor Fusion
et. al IEEE Global Communications Conference 2018   2018

TECHNICAL SKILLS

Languages & Frameworks	Python, C++, Java, Kotlin, Bash, Android, SQL, Pytorch, Unity, Terraform
Web Development	Django, Flask, Spring Boot, Vue.js, HTML5, CSS, MySQL, JavaScript

EXTRA CURRICULAR HIGHLIGHTS

AWARDS	• Awarded **Best Research Award** (1 of 122) for Institute Technical Summer Project • Awarded **Institute Special Mention** for exceptional contribution in technical activities • Awarded **'A' certificate** for clearing National Cadet Corps level 1 exam
SOCIAL	• Volunteered as teacher for **underprivileged kids** under NGO Asha; tutor for Computer Literacy Program • Appointed as **Teaching Assistant** for the course Data Analysis and Interpretation