Vikas Pedapudi

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EDUCATION

National Institute of Technology, Warangal — CGPA: 7.59/10
Bachelor of Technology in Electronics and Communication Engineering — *Jul. 2016 – Aug. 2020*

Narayana Junior College, Marikavalasa — Score: 980/1000
Intermediate in MPC (Maths, Physics, Chemistry) - BIEAP — *Jun. 2014 – Apr. 2016*

St. Mary's High School, Yellamanchili — GPA: 9.8/10
Class X - Secondary School Certificate (SSC) - BSEAP — *Jun. 2013 – Apr. 2014*

EXPERIENCE

Netcracker Technology — Hyderabad, IN
Software Engineer — *July 2022 – Present*
- Developing next-generation cloud-based billing application (Cloud NRM) as part of core R&D team using C++, Kubernetes, Docker, AWS, WSL, and Postman.
- Implemented around 65 features on billing and finance sub-systems supported bug fixes for clients including AIS, Altice Portugal, Andorra Telecom, BT, Fastweb, NTT, Nuuday, Telenet, and VMO2.
- Developed a ProtoBuf-XML (PB2XML) marshaller as an independent utility library in NRM.
- Improved Vertex tax library integration for billing, resulting in a 3.5x faster execution time and a 250% performance improvement by processing 5.1 million events in 41 minutes.
- Optimized database by 84.93% with proper schema handling for test suites in billing and rating applications.
- Utilized DevOps practices including CI/CD pipelines, containerization, and infrastructure-as-code.

Junior Software Engineer — *October 2020 – June 2022*
- Upgraded NRM to RHEL 8.2, GCC 8.3.x, and C++17.
- Performed Just In Time Rollups (JITR) of new features, bug fixes, and fixed regression test suites.
- Integrated NRM with Tax SaaS provider Vertex O Series for British Telecom DigiCo.
- Implemented SEPA support for Andorra Telecom in Cloud NRM.

PROJECTS

Detection and Classification of Eye Diseases | *Python, Keras, TensorFlow* — *Jul. 2019 – Apr. 2020*
- Developed a multi-class classifier using Convolutional Neural Networks to classify the eye diseases from the Retinal Fundus Images in 4 classes namely Cataracts, Diabetic Retinopathy, Glaucoma, and Normal. Achieved a classification accuracy of 84%

Implementation of AES on FPGA | *VHDL* — *Mar – Apr 2018*
- Developed VHDL code for the 128-bit AES encryption algorithm and implemented it on Nexys 4 DDR Artix-7 FPGA Board

8086 Based Microprocessor Project | *Assembly Language* — *Feb 2019*
- Interfaced both Hex-keypad and 7-segment display together with the 8086 microprocessor using 8255 PPI, so that the key pressed in the hex-keypad gets serially displayed in the SSD

Obstacle Avoiding Vehicle using Arduino | *Arduino Programming (C/C++)* — *Mar – Apr 2019*
- Designed a vehicle with an ultrasonic sensor mounted on a servo motor to detect obstacles and find alternative paths. Interfaced components with Arduino UNO

TECHNICAL SKILLS

Primary Skill: C/C++, Oracle SQL, PostgreSQL, Shell scripting
Platforms: Windows, Linux/Unix
Others: CUDA, Python, Kubernetes, Git, WSL, Docker, CLion, Postman, Jenkins, Jira

ACADEMIC ACHIEVEMENTS

- Received a consolation prize at the **Netracker Hackathon** in Hyderabad for developing the 'BillData as ProtoBuf' idea. — *2023*
- Recognized for the work in Cloud NRM and awarded **'You've Made a Difference'** award at Netcracker Technology. — *2023*
- Recognized for the work in NRM RHEL 8.2 upgrade project and awarded **'Team Award - Champions'** at Netcracker Technology. — *2021*
- Participated in the **A.P. State Level 20th National Children's Science Congress** - presenting a project on "Briquetting of Agro Waste" under the focal theme: ENERGY - EXPLORE, HARNESS & CONSERVE. — *2012*
- Secured 3rd Prize in the **District Educational Science Exhibition** for the exhibit under the sub-theme "Mathematical Modelling" with the main theme of "Science and Society" — *2012-13*
- Secured 1st Prize in Quiz Competition held in **District Inspire Exhibition**. — *2011-12*
- Recognized as the **'Best Student'** by St. Mary's Management and awarded a gold medal and a memento on the occasion of Silver Jubilee Celebrations of the school. — *2013*

EXTRACURRICULAR ACTIVITIES

- Serving as Joint Treasurer for the NIT Warangal Alumni Association, Hyderabad Chapter (NITWAAH). — *2022-24*
- Sub-Coordinator of Event Conduction and Coordination (ECC) - Technozion, NIT Warangal. — *2018*
- Software Developer at Web & Software Development Cell (WSDC), NIT Warangal. — *2016-17*
- Served as the House Leader, St. Mary's High School. — *2013-14*