

Vikas Pedapudi

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EDUCATION

National Institute of Technology, Warangal <i>Bachelor of Technology in Electronics and Communication Engineering</i>	CGPA: 7.59/10 <i>Jul. 2016 – Aug. 2020</i>
Narayana Junior College, Marikavalasa <i>Intermediate in MPC (Maths, Physics, Chemistry) - BIEAP</i>	Score: 980/1000 <i>Jun. 2014 – Apr. 2016</i>
St. Mary's High School, Yellamanchili <i>Class X - Secondary School Certificate (SSC) - BSEAP</i>	GPA: 9.8/10 <i>Jun. 2013 – Apr. 2014</i>

EXPERIENCE

Netcracker Technology <i>Software Engineer</i>	Hyderabad, IN <i>July 2022 – Present</i>
<ul style="list-style-type: none">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 65+ features on billing & finance sub-systems and 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.Applied DevOps practices including CI/CD pipelines, containerization, and infrastructure-as-code.	
<i>Junior Software Engineer</i>	<i>October 2020 – June 2022</i>
<ul style="list-style-type: none">Upgraded classic NRM code base 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.Automated functional and unit testing in builds using shell scripts and GTest framework.Implemented SEPA support for Andorra Telecom in Cloud NRM.	

PROJECTS

Detection and Classification of Eye Diseases <i>Python, Keras, TensorFlow</i>	<i>Jul 2019 – Apr 2020</i>
<ul style="list-style-type: none">Led a team of three to develop 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 <i>VHDL</i>	<i>Mar – Apr 2018</i>
<ul style="list-style-type: none">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 <i>Assembly Language</i>	<i>Feb 2019</i>
<ul style="list-style-type: none">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 <i>Arduino Programming (C/C++)</i>	<i>Mar – Apr 2019</i>
<ul style="list-style-type: none">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

Core Competencies: C/C++, Oracle SQL, PostgreSQL, Shell scripting
Platforms: Windows, Linux/Unix
Technologies & Tools: CUDA, Python, Kubernetes, Git, WSL, Docker, CLion, Bazel, Postman, Jenkins, CI/CD, Jira

ACADEMIC ACHIEVEMENTS

- Awarded the 'Above and Beyond' at Netcracker Technology for Cloud NRM contributions to Nuuday, Altice, Fastweb, and AIS. *2024*
- Led a team of five to develop the 'BillData as ProtoBuf' solution, earning a consolation prize at the **Netracker Hackathon**. *2023*
- Awarded the 'You've Made a Difference' at Netcracker Technology for significant contributions to Cloud NRM development. *2023*
- Received the 'Team Award - Champions' at Netcracker for my contributions to the successful NRM RHEL 8.2 upgrade project. *2021*
- Presented a project on "Briquetting of Agro Waste" at the **A.P. State Level 20th National Children's Science Congress**. *2012*
- Won 3rd Prize in the **District Educational Science Exhibition** for the exhibit under the sub-theme "Mathematical Modelling" under the theme of "Science and Society" *2012-13*
- Secured 1st Prize in Quiz Competition at the **District Inspire Exhibition**. *2011-12*
- Honored as 'Best Student' at St. Mary's Silver Jubilee, awarded a gold medal and memento. *2013-14*

EXTRACURRICULAR ACTIVITIES

- Joint Treasurer, NIT Warangal Alumni Association, Hyderabad Chapter (NITWAAH) – Managing finances and alumni events. *2022-Ong*
- Sub-Coordinator, Event Conduction and Coordination (ECC), Technozion, NIT Warangal – Coordinated Technozion events. *2017-19*
- Software Developer, Web & Software Development Cell (WSDC), NIT Warangal – Maintained student portal for 7,000+ users. *2016-19*
- House Leader, St. Mary's High School – Led inter-house activities, promoting teamwork and school spirit. *2012-14*