

Revanth Reddy Male

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Education

Texas A&M University

Master of Computer Science

Coursework: Computer Science, Software Engineering, Machine Learning, NLP, Algorithms, Data Mining.

College Station, TX

Aug 2021 - May 2023

National Institute of Technology, Durgapur

Bachelor of Technology in Computer Science & Engineering

Coursework: Computer Science, Algorithms, Object Oriented Programming, Data Structures, Operating Systems, AI/ML.

Durgapur, India

Aug 2016 - May 2020

Skills

Programming: Python, JavaScript, React, NextJs, React Native, Node, Angular, C, C++, Java, Redux, HTML, CSS.

Software: GitHub, Django, Flask, MySQL, SQL, Spring, AWS, Git, REST API, Docker, Kubernetes, PyTorch, Linux.

Experience

SOFTWARE DEV ENGINEER

Amazon

Seattle, Washington

Dec 2023 - Present

- **Tech:** React, NodeJs, TypeScript, JavaScript, Java, AWS, CI/CD, Linux.
- Led end-to-end development and launch of a "Next in Series" book recommendation feature, generating \$27 million in annual global revenue; collaborated with Design and Product teams and built metrics dashboards and alarms to monitor performance. Improved operational excellence by streamlining processes and demonstrated customer obsession by delivering a seamless, user-focused experience.
- Revitalized legacy codebase by migrating and modernizing existing code while preserving core functionalities, demonstrating adeptness in maintaining legacy systems. Optimized algorithms and enhanced performance in the new stack, resulting in significant efficiency gains and improved user experience.
- Developing versatile book display cards showcasing essential information ensuring a rich user experience and maintaining focus on re-usability, facilitating seamless integration by other teams for their feature launches, fostering cross-functional collaboration and efficiency.

SOFTWARE ENGINEER

Fujitsu

Dallas, Texas

June 2023 - Dec 2023

- **Tech:** Linux, Docker, Python, ML, Deep Learning, YOLO, Keras, APIs.
- Developing robotic system to automate manipulation of optical cables on network racks, optimizing efficiency and reducing manual labor. Working collaboratively with a cross-functional team.
- Utilized Computer Vision techniques to design and program complex movements for the robot, ensuring accurate cable manipulation and minimizing errors.
- Leveraged Python & PyTorch Yolo Models to create robust and reliable automation for network infrastructure.
- Integrating the robot into the existing network infrastructure results in streamlined cable management processes and improve overall network performance.

GRADUATE ASSISTANT RESEARCH

Texas A&M University

College Station, Texas

Jan 2022 - May 2023

- **Areas of Interest:** Full Stack, Machine Learning, Natural Language Processing, Visualization, Dockerization.
- **Tech:** Django, Flask, React, Docker, Python, Folium, MQTT, Grafana, Javascript, JSON, REST API, SQL, MongoDB, Redis.
- **Fisheries Project:** Visualized and developed an application that consumes a data of 2.3GB on Geo Spatial Plane. Interpreted interactive Maps that show Fish availability in ocean based on the user selection of parameters.
- **RDash Project:** Modelled a recommendation system application. It proposes relevant research opportunities in NSF, NIH Proposals based on scholars profile. Integrated Cache system which speeds up response time by 96%.
- **LightHouse Project:** Pioneered a tool that categorizes documents by analyzing frequencies of flagged words. Constructed analyzer to visualize information extracted into pie, bar charts and word cloud.

SOFTWARE DEVELOPMENT ENGINEER INTERN

Amazon

Seattle, Washington

June 2022 - Aug 2022

- **Design & Development:** Designed a Development Pattern in Frontend and Backend to introduce a Video Card in Kindle Application. This Card helps in giving a quick introduction to a book with small video and author widget. Instituted reusable cross-platform components. Enhanced user interaction with Cards by 29%.
- **User Experience:** Incorporated platform-specific gestures. Added support for multiple languages and accessibility. Made the Card theme based and responsive for devices.

- **Testing:** Executed Tests for React and Spring Boot with code coverage of about 90%. Carried out Accessibility tests and A&B tests to compare user engagement with and without Video Card.
- **Analytics & Documentation:** Implemented User Analytics Capturing System to analyze the performance. Observed an increment of 65% in user clicks. Documented Frontend, Backend Services and Analytics of Card.

SOFTWARE DEVELOPMENT ENGINEER **OYO**

Hyderabad, India
Aug 2020 - Aug 2021

- **Tech:** React, React Native, Redux, Angular, Google Analytics, Android, iOS, Node, Kafka, REST API
- **Development:** Architected large-scale mobile applications for OYO Life, Campus in Android & iOS Platforms.
- **Optimization & Performance:** Leveraged apps performance with smooth UIs across both web and mobile platforms. Reduced application size by 60%, accelerated image rendering speed by introducing .webp format.
- **Initiatives:** Authored Frontend Microservices to build independent components that lowered load by 75%.
- **Cost Saving:** Used Cross-Platform Frameworks to build apps and saved about 65% of cost & 50% of bandwidth.

FULL-STACK DEVELOPMENT INTERN **Techleer**

Bangalore, India
May 2020 - July 2020

- Overhauled TechLeer's main application, a research papers Wikipedia. Introduced a job scheduler for dealing with GitHub, and ARXIV APIs to update the database periodically.
- Created a Logging mechanism for finding Api hit anomalies. Migrated project code from Python2 to Python3.
- Part of a multi-national team. Led development and deployment of core applications.

HEAD & SOFTWARE DEVELOPER **Center for Cognitive Activities**

Durgapur, India
Feb 2016 - Mar 2019

- Developed web & mobile applications and UI/UX mockups for the technical society of NIT Durgapur.
- Head and Executive member of Web Design and Creative Team, Centre for Cognitive Activities(CCA), NIT Durgapur. CCA organizes Aarohan, the second-largest Techno-Management fest in Eastern India.
- Led a team of 18, developers, and designers. Built several game applications that achieved a participation count increment of 250% during the fests. Achieved a user base of 5000 users.

Projects

Dronacharya Python, React, React Native, Django, REST API, Google Analytics, iOS, Android, Web

- Authored an Interview Prep Application for students. Built cross-platform mobile and web app and backend with Django Rest Framework. Achieved a student network of 2000 in just 2 months.

Mask Detection using CNN Python3, OpenCV, Tensorflow, CNN, Linux

- Engineered a model to detect Face Mask presence in an image in order to adhere CoVid-19 Safety. Trained on augmented Face mask kaggle dataset with 10 layers to achieve high accuracy. Won 9th place in Idea Innovation Contest. Qualified for funding through MSME's Idea Programme to incorporate into actual devices.

Smart Dust Bin C++, React, PyCharts, Django, Arduino, Python, GitHub

- Created a Robotic Smart DustBin to collect misthrown dust. Achieved an accuracy of 92%. Developed a web application with real-time graphs and an Alert system to inform waste management. Winner of IOT Hackathon 2018 NIT Durgapur, engaged in building live working model with Python, Google Cloud, Arduino, Node MCU.

Awards & Extra-Curriculars

- Awarded with Computer Science Scholarship & Fellowship from Texas A&M University.
- Led a team of 18 developers and designers. Worked as a Technical Club Head during my Bachelors.
- Active participant in Conferences & Hackathons. Participated GHC'22, Datathon'22, GHC'21, IOT Hackathon'18.