Contact

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Top Skills

Java
Database Design
Algorithm Design

Oishee Nandy

Engineering Physics graduate from the University of Illinois at Urbana Champaign. Skilled in software development, with expertise across the full software development lifecycle and building end-to-end solutions.

Dallas, Texas, United States

Summary

Engineering Physics graduate from the University of Illinois at Urbana-Champaign with a concentration in computational physics, and a minor in computer science.

Passionate about leveraging critical thinking and analytical skills, to identify and solve complex problems. Strong background in mathematics and physics with proficiency in multiple programming languages supported by hands on experience gained from a multitude of internships.

I am currently seeking a professional opportunity that will help further my drive to succeed and tap into my thirst for knowledge.

Experience

Citi
Software Engineer
August 2022 - Present (2 years 3 months)

RailTEC at Illinois
Computer Assistant - Programmer/Web Developer
October 2021 - May 2022 (8 months)
Urbana-Champaign Area

· Working alongside the RailTEC team to develop a system to test, design, enhance and maintain the current real time tracking and vehicle health monitoring system of trains at CTA and Metra
· Deployed the entire application onto AWS RDS and AWS EC2 to reduce overall cost of setting up the application
· Used Python and PostgreSQL to collect track loading data to improve engineering design for increased reliability and safety
· Developed a real time notification to inform CTA and Metra of rolling stock wheel maintenance needs

· Designed an administration dashboard using Django and ReactJS to display the relevant information about maintenance requirements.

Emirates NBD
Intern
July 2020 - August 2020 (2 months)
Remote

· Worked on a transformation project to enable the bank to make informed decisions during the reorganization process
· Developed code using pandas framework and matplotlib to calculate the changes in efficiency of various bank sectors, making the data actionable and easy to interpret
· Analyzed the Software Development Life Cycle (using function and story points) to allow the team to measure productivity of waterfall projects

Microtek Systems Inc.
Engineering Intern
June 2019 - July 2019 (2 months)
Pune Area, India

• Developed a prototype of an IoT product to monitor safety at construction sites which was later manufactured and sold at large scale
• Developed a system using a Raspberry Pi 3B+ and various sensors (fire, water, temperature, humidity, etc.) to detect and record (in a MySQL database) ambient work conditions, providing customers detailed safety logs
• Created a fully-functional website where customers could both view real-time sensor data as well as search through and visualize safety log data
• Led meetings with company management as well as clients, ensuring we were understanding and meeting their requirements constantly

National Council of Science Museums
Engineering Intern
May 2017 - July 2017 (3 months)
Kolkata Area, India

• Wrote software to convert alphanumeric input into frequencies that could allow deaf people to "hear"
• Assembled a device that could produce vibrations in accordance with the output of said software

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Education

University of Illinois at Urbana-Champaign
Bachelor's degree, Engineering Physics · (2018 - 2022)

Indus International School Pune
General Education Diploma (International Baccalaurette) · (2016 - 2018)

St. Mary's School (Pune, India)
General Education Diploma   · (2003 - 2016)