Aniket Mishra

(587)-937-3508 | ianiket23@gmail.com | www.linkedin.com/in/ianiket23

EXPERIENCES

G2V Optics   May 2022 - August 2022

Software Developer Intern | Edmonton, AB

- Worked on releasing a feature for the PICO, a small area solar simulator product, that simulates the illumination of the sun given longitude, latitude, and elevation at specific times and dates.
- Improved the simulation performance by 75% with the use of multithreading.
- Tech-Stack: Python, Javascript, HTML, CSS, Apache, JIRA, Git, Github

AI Shading   January 2022 - April 2022

Software Developer Intern | Calgary, AB

- Developed a real-time website that stores data from Tuya SDK and Open Weather API in a database and performs statistical analysis using React Charts Library.
- Implemented JWT authentication with HTTP only cookie for security.
- Increased the data transfer speed between client and server by 40% with the use of websockets.
- Tech-Stack: React, Redux, SpringBoot, Hibernate, PostgreSQL, Jest, Enzyme, Docker, Git

Rehabilitation Robotics Laboratory   May 2021 - August 2021

Research Assistant | Edmonton, AB

- Worked on an augmented reality software that enables diagnostic images to be projected onto the skin of the patient.
- Tech-Stack: Unity, C#, Google Colab, Github

PROJECTS

Spacecraft EPS Simulator (https://github.com/iAniket23/Spacecraft-EPS-Simulator)

- Created a program to simulate basic functionalities of the Power system in Spacecraft.
- Implemented multithreading using POSIX pthread so that voltage, current, and temperature readings could be updated frequently and safety measures could be triggered when readings were dangerous.
- Increased the accuracy of readings by implementing synchronization, resources protection and sharing using mutex.
- Tech-Stack: C, Git

Social Distance (https://github.com/CMPUT404NotFound/project)

- Developed a blogging/social networking platform that allows sharing of posts as well as importing of content from other sources (such as Github, Twitter, etc.).
- Worked on the backend to create API endpoints and handle requests from other servers.
- Applied the Django authorization model to implement the login/signup functionalities.
- Tech-Stack: Django, Heroku, Postman, React, Netlify, Git, Github

Experimenter (https://github.com/CMPUT301W21T21-H03/DivineInspiration)

- Led the development of a social networking Java android application with a Model-View-Controller pattern for recording and editing various experiments (such as Binomial, Non-Negative, etc.).
- Integrated Google Map API to display the location of the ongoing experiments.
- Utilized Firebase database to store and retrieve all the relevant data.
- Tech-Stack: Android Studio, Java, Firebase, Git, Github

EDUCATION

University of Alberta   Edmonton, AB

BSc. with Specialization in Computing Science   Expected April 2024

- Dean's Honor Roll (2021-2022)

SKILLS

Languages: Python, C++, C, Java, HTML/CSS/Javascript, RISC-V Assembly, Golang Gin

Technologies: Django, Android, Git, MongoDB, MySQL, Firebase, React, Flutter

Courses Taken: Algorithms and Data Structure, Web Architecture, Database Management, Operating Systems, Software Engineering, Discrete Mathematics, Marketing, Applied Statistics