Harsh Devprakash Gupta

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Expected: Dec 2020

OBJECTIVE

To obtain an internship or research opportunity that will allow me to utilize my problem-solving skills and advance my abilities in the field of computer science.

EDUCATION

University of Illinois at Chicago (UIC), Honors College

Bachelor of Science in Computer Science and Minor in Finance

- G.P.A- 3.64/4.00
- UIC Engineering Merit Scholarship
- Dean's List

Relevant Coursework- Data Structures, Software Design, Systems Programming, Programming Language Design and Implementation, Computer Design, Web Development, Program Design, Programming Practicum, Machine Organization,

SKILLS

Programming: Python, C++, C, F#, MySQL, HTML5, JavaScript, Java, TensorFlow, OpenCV, PHP, Node.js, Laravel, CSS, .NET, GitHub

Systems: LINUX, Windows, MacOS, Ubuntu, CentOS 7, Linux System Administration

Microcontrollers: Arduino, Raspberry Pl **Supercomputing:** Torque, Moab, Ganglia

Natural Language: English, Hindi, Nepali, German

AWARDS

- 3rd Place- Google Tech Challenge 2019, Chicago
- Nehru Institute of Mountaineering Scaled peak Draupadi ka Danda (18,740 ft), 5680 mts

WORK EXPERIENCE

Engineering Research Facility, High Performance Cluster (HPC) Lab, UIC

February 2018-Present

Lab Assistant

- Implemented a model for prediction of life-threatening objects and achieved 99% precision, even with damaged images.
- Using Deep Learning algorithm to increase the precision for non-life-threatening objects.
- User Account creation and management and addition of GPU nodes.
- Achieving faster memory management by caching data in a scratch memory and storing it in disk drives.
- Checking the scheduler for issues with accepting jobs and solving those issues.

Computer Science Department, University of Illinois at Chicago

January 2019- Present

Computer Science Teaching Assistant

- Instructed three, two-hour labs weekly to help student design, implement software development tools and practices, debugging and testing and advanced language features.
- Held weekly office hours to explain concepts like code management, code smells, design patterns.
- Collaborated with the instructor to provide focused help to struggling students through code review.

Ekta Flow LLC, Software Company in Chicago

June 2019 - August 2019

Software Development Intern

- Achieved better and faster execution of React Application by improving run-time of the database
- Used React and Material-UI to optimize the front-end of a manufacturing process management application.
- Built web applications using Laravel and added features to use API in JavaScript.
- Performed QA testing on microcontrollers and react based applications.
- Collaborated and participated in daily Agile/Scrum meetings, code reviews, sprint planning

Deerwalk HealthCare Solutions, Nepal

June 2018-July 2018

Intern as MySQL/Java Developer

- Writing Procedures and SQL queries and procedures as desired by the clients.
- Fixing Bugs and working with the backend team and maintaining the database.
- Identified root cause of slower execution of database and wrote performance tuning queries for better runtime.

PROJECTS

Threat Detection App using TensorFlow and OpenCV: Detects life threatening objects like guns, hammers, knives etc.

User Management Web App: Web Application built on Laravel for User Management, allows creation of users, giving access etc.

Restaurant Waiting Management: A complex console application to manage a queue and tables at a restaurant.

Real Time ISS Location: A simple webpage to track the International Space Station location using API.

CTA Analysis Application: .Net Application using MySQL database to analyze the yearly data for Chicago Transit Authority.

ACTIVITIES

Mountaineering, Hiking, Fishing, Cycling, Travel and Photography.