Prannav Gupta

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Education

UNIVERSITY OF ILLINOIS AT URBANA-CHAMPAIGN **2018 – DEC 2021**
Bachelor of Science in Computer Engineering GPA: 3.72/4.0
College of Engineering James Scholar (Honors) Dean's List Spring' 19
Related coursework: Data Structures and Algorithms Honors, Analog Signal Processing, Introduction to Computer Systems and Programming, Introduction to Electronics Honors, Introduction to Computing

Work Experience

AIRV LABS **SEPT 2019 – PRESENT**
SOFTWARE ENGINEERING INTERN CHAMPAIGN, IL

- Working on the Authoring Tool for enterprise customers beyond the healthcare industry
- Current roadmap includes a cloud backend, natural language processing and multi-user mode

HEALTHCARE ENGINEERING SYSTEMS CENTER (CSL) **JUNE 2019 – AUGUST 2019**
SOFTWARE ENGINEERING INTERN URBANA, IL

- Created the core of the Authoring Tool using Unity C# to help instructors create cross-platform (Oculus and SteamVR) Virtual Reality learning environments

ILLINOIS STATE WATER SURVEY **AUG 2018 – FEB 2019**
UNDERGRADUATE RESEARCH ASSISTANT CHAMPAIGN, IL

- Built an image processor for the ISWS Lake snow effect identifier tool to detect a region-of-interest using Python and OpenCV
- Processed large quantities of LIDAR data using Python and used open-source libraries such as matplotlib to interpret the data
- Conducted field experiments for the NSF funded SAVANT project to analyze the effect of stable boundary layers on crop productivity

Relevant Projects

TRACERBOT **JANUARY 2019 – MAY 2019**
Worked with a team to create a pen tracer which imitated a human drawing on a resistive touch overlay in real-time using Arduino and servos

ILLC3 **FEBRUARY 2019**
Co-Created an extension to add support for the LC3 assembly language for Visual Studio Code
Top 10 at HackIllinois 2019 and has 130+ installs from the Visual Studio Code marketplace

GIFT IT! **OCT 2018**
Created a Gift Recommendation Generator which utilizes machine learning to semantically match the users interests and preferences such as price range with the descriptive attributes of the products to give a ranked list of suggestions with URL's to purchase them. Project created at HackGT, Georgia Tech

MOCK STOCK TRADING PLATFORM **JUL 2018**
Implemented user authentication and used a real-time API to fetch real-time stock data
Implemented the ability for a user to change passwords, look up current stock prices and see the net value of their portfolio. Personal Project created in the summer of 2018

Skills: C/C++, Python, Flask, HTML/CSS, Assembly (LC-3), C#, Raspberry Pi, MATLAB, AWS, Unity, ML