NICOLE HUANG

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EDUCATION

University of Pittsburgh, Pittsburgh, PA   *Expected Graduation: December 2021*
Bachelor of Science in Computer Science   *GPA: 3.74*
Relevant Coursework: Calculus III, Linear Algebra, Applied Statistical Methods, Practical AI, Data Structures, Algorithm Implementation, Intro to Systems Software, Software Quality Assurance, Formal Methods in CS, Intro to Operating Systems

SKILLS

Programming languages: Python, Java, C, HTML, CSS, JavaScript, SQL, R
Tools/Technologies: Git, Docker, Google Cloud Platform, OpenCV**,** React, Flask, Pandas, Tableau, Eclipse, Selenium, JUnit
Operating systems: Windows, MacOS, Linux
Certifications: Lean Six Sigma Green Belt, IBM Data Science Professional (In progress)

WORK EXPERIENCE

TimeSys Corporation   *Pittsburgh, PA*
Software Engineer Intern / co-op | Python, Git Lab, Docker, Asana, Scrum   *January 2021 - Present*
- Building a **RESTful API** for customers to pull down reports and trigger new scans from their own scripts
- Creating a client library in **Python** for customers to use the API as a reference implementation

Software Engineer Intern / co-op | Linux (Ubuntu), Git Lab, Docker, Python, Scrum   *May 2020 - August 2020*
Worked on LinuxLink, Timesys's web portal for accessing security tools and embedded Linux development environment
- Increased sales team's work efficiency by designing and building an interactive web application as an internal tool on the LinuxLink, which allows them to conveniently search on the user information and look for product statistics
- Created **RESTful APIs** as back-end by using **Python** microframework **Flask** to handle the requests and send responses to the front-end interface and parse data from **JSON** format
- Implemented **Object Relational Mapping (ORM)** on **SqlAlchemy** to query, filter and extract data from the database
- Developed a front-end by utilizing **Bootstrap, CSS, HTML, JavaScript, DataTables**, and **Jinja2**, and used **JQuery** to set up event-driven responses on page elements

University of Pittsburgh, **School of Computing and Information**   *Pittsburgh, PA*
Undergraduate Teaching Assistant / Intro to Computing for Scientists, Data Structures   *September 2020 – Present*
- Instruct lab section weekly to 17 and 25 students, enhancing their understanding and practical skills through Python and Java projects respectively
- Hold weekly office hours, provide assistance and resources to students

SELECTED PROJECT EXPERIENCE

Personality Hacker | Python, BERT, Scikit-Learn, Flask, React   Website
- Worked as a back-end engineer to build a web application integrated with a machine learning model to predict MBTI personality types given a Reddit username or a writing sample
- Integrated with **Reddit API** to fetch comments from username and using the machine learning model to analyze

Learning Buddies – SheInnovates Hackathon 2020 | HTML, CSS, JavaScript, Bootstrap   GitHub
- Built and designed a website with implementation of **Google Map API** to help students navigate and find study groups
- Served as product manager and QA to research the requirements of potential users, design features and test functions
- Improved team efficiency by creating a task management strategy and work distribution

Best Neighborhood in Pittsburgh | Team leader, Python, Jupyter Notebook   GitHub
- Formatted, cleaned, and filtered three raw data sets from WPRDC to interpret and predict the best neighborhood according to the crime rate and the median age at death, resulting in Banksville
- Visualized and analyzed different aspects of the data by using **Pandas, NumPy**, and **Matplotlib**

Secure Chat Server | Java   GitHub
- Implemented a primitive secure communications system utilizing the RSA cryptosystem and two primitive symmetric ciphers – a substitution cipher and an additive cipher

LEADERSHIP AND ACTIVITIES

Chinese Undergraduate Students Association   *Pittsburgh, PA*
Outreach Chair   *May 2020 - Present*
- Secured sponsorships and received more than $10,300 which increased the allocation budget by 343%

Grace Hopper Celebration 2020 Attendee   *September 2020 - October 2020*