WILLIAM BENDER

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EDUCATION

Pace University, Seidenberg School of Computer Science and Information Sciences — **Pleasantville, NY**
Bachelor of Science in Computer Science, Major GPA: 3.96 — **May 2019**
Minor in Chemistry and Mathematics GPA: 3.84
Honors: Dean's List, Provost Undergraduate Research Award, Freshman Honor's Society

RELEVANT COURSEWORK

Quantum Computing | Web Scripting | Fundamentals of Parallel & Distributed Programming | Software Engineering | Computer Networks & Internet | Operating Systems & Architecture | Algorithms and Computing Theory | Firebase

TECHNICAL SKILLS

Programming Languages: Java, Python, Swift, SQL, C++, JavaScript, HTML5, CSS3, Linux/Unix Shell
Operating Systems: Mac, Windows, Ubuntu, iOS, Android
Database: Maria DB, MySQL
Computer Software: IntelliJ, Jupyter Notebook, Xcode, OnshapeCAD, Arduino, GitHub, Brackets, WEKA, Microsoft Office Suite

PROJECTS

Economical Water Quality Monitoring — **Spring 2018**
- Designed a floating device that houses a data-logging Arduino, Xbee and other supporting circuits by developing a CAD model and utilizing a 3-D printer
- Designed a sensor package for ubiquitous water quality monitoring with goal of per package price less than $200

CERN Design Thinking — **Fall 2018**
- Selected to represent Pace at CERN (European Organization for Nuclear Research) with an international group of 30 students to learn how to develop problem solving skills around technical innovation. **twh.cloud/cern**
- Pace project lead charged with addressing water quality issues in NY region for 2025-2030

PacePrint Mobile Printing App for University
- Designed an app capable of mobile printing to existing University print systems using IOS, Firebase, Java, CUPS
- Influenced university to purchase official package

Arduino-IOS Proximity Unlock App — **Summer 2017**
- Designed an app to connect to a Bluetooth-enabled Arduino embedded in car to proximity lock/unlock
- Programmed app using Swift Core Bluetooth, and C++ language in Arduino microprocessor
- Embedded Arduino in car by designing amplifying circuits to control door lock module

RESEARCH EXPERIENCE

Dyson College of Arts and Sciences, Pace University — **Pleasantville, NY**
Faculty Led Chemistry Research — April 2016 - May 2017
- Researched step-growth polymerization of siloxanes and their resulting effects on environmental microbial growth
- Published in the American Chemical Society and featured in undergraduate Siloxane research **twh.cloud/acspub**
- Received Provost undergraduate research award/funding
- Created 4 blog posts showcasing work **twh.cloud/ugrblog**

WORK EXPERIENCE

Environmental Systems CoLab — **Pleasantville, NY**
Software Development — May 2018 - Present
- Developed backend for management of water quality data from multiple deployment stations using Java and Scripts
- Designed graphical view of sampled water data using PHP and JavaScript to better under water quality trends.

HOPE Software — **Navesink, NJ**
Software Developer — October 2017 - May 2018
- Tailor data management system for entrepreneur and staff to effectively operate business
- Develop functions and scripts to streamline the user interface in several development projects

Pace University Learning Assistance Center — **Pleasantville, NY**
Tutor — September 2016 - Present
- Tutor students in Java, Unix Shell, HTML/CSS, C, Calculus 1-2-3, Organic Chemistry
- Hold group review sessions in Organic Chemistry and General Chemistry

LANGUAGES

Proficiency in Japanese

INTERESTS

Motorcycles, International Traveling, Hiking