

Neil (Jan) Wu

7414 Jeans Way, Ellicott City, MD 21043

☎ (319) 383-8274 | ✉ neil.wu@duke.edu | 🏠 neilwu1.github.io | 🐙 NeilWu1 | 🌐 neil-wu

*Well-rounded candidate: (1) full-stack software development experience, (2) rigorous academic and employment background in computer science techniques such as **Machine Learning** and **Data Science**, (3) highly motivated to constantly learn and improve*

Education

Duke University

Durham, NC

B.A., COMPUTER SCIENCE AND HISTORY, MINOR IN PSYCHOLOGY

May 2019

- GPA: 3.5/4.0
- Achieved Dean's List with Distinction
- TISS IC CAE Scholars Program
- Graduation with Distinction Program

Skills

Programming Languages

- Proficient working experience: Python, JavaScript, HTML, CSS, SQL, Bash
- Academic experience: Java, JSON, XML, XPath, XSLT
- Beginner level: C, MIPS, Assembly Languages, MATLAB
- Self-Learning: Apache Open Source Projects (Hadoop, NiFi, Tomcat, Pig, Subversion), C++, C#, Objective-C

Libraries and Frameworks

- Proficient working experience: Django, Ajax, SQLite, Bootstrap, jQuery, Anaconda, Pandas, NLTK, Matplotlib, NumPy, SciPy, scikit-learn, PDFminer, Whoosh, GoogleOAuth, XlsxWriter, Docx2txt, StanfordNER
- Academic experience: PostgreSQL, Flask, Jinja2, Tensorflow, Google Cloud Platform
- Self-Learning: Amazon Web Services, Java frameworks

Concepts and Techniques

- Professional experience: Agile methodology, Unix environments, Git/GitHub version control, server setup for web-based applications, workflow management with Trello and Jira, Windows, Linux, MacOS/OSX operating systems
- Proficient working experience: Machine Learning Classifiers (Naive Bayes Classifier, K-Means Clustering, K-nearest neighbors, Random Forest, Decision Tree), Natural Language Processing (NLTK, StanfordNER)
- Academic exposure: Deep Learning, Neural Networks, Big Data techniques (Mining, Cleaning, Relational Data Processing, Visualization)
- Proficient with MS Office Suite and LaTeX document preparation

Work Experience

Novetta

Columbia, MD

FULL-STACK SOFTWARE ENGINEER

May 2017 - PRESENT

- Developed and maintained the Novetta CSD Division's employee tracking software suite, which sees 100+ regular users and also consists of a training portal and resume database
- Worked with a Django stack (Python/Django/SQLite) and a traditional front-end stack (HTML/CSS/JavaScript)
- Created resume parser using Python packages (NLTK/StanfordNER) which automated the extraction of pertinent data from resumes, which was then processed and stored in a SQLite database
- Implemented machine learning techniques (KNN/Decision Tree/SVM) which trained on the resume database and could then be used to generate actionable insights used in the assembly of teams for contracts or for predicting high-value hiring prospects
- Regulated product design cycles using an Agile methodology, iteratively adjusted specifications to adapt to evolving stakeholder needs and market standards
- Communicated daily with fellow engineers and updated work-flow backlog with new goals for sprint
- Collaborated with local and corporate management to maximize efficacy and client satisfaction, demonstrated success and dedication towards the objective

Duke Office of Information Technology

Durham, NC

IT ANALYST

Aug. 2016 - PRESENT

- Addressed technology-related requests of students/staff on a walk-in basis and managed internal knowledge base articles
- Developed technical troubleshooting skills and exercised domain knowledge pertaining to hundreds of documented hardware/software problems
- Supported issues such as network connectivity, workstation setup, data storage optimization, program configuration, recovery of failed software, malware removal

Google

Research Triangle Park, NC

STUDENT PROGRAM MANAGER

Oct. 2017 - May 2018

- Managed the liaison between Google Cloud Platform and the student/faculty population of Duke University, generated \$18,000 worth of business opportunities in support of the program's mission
- Worked closely with local Google Cloud Platform teams, tested products, and provided technical feedback on features

Johns Hopkins Medicine

Baltimore, MD

WEBMASTER | LABORATORY TECHNICIAN

May 2016 - Aug. 2016

- As webmaster, created the lab website for Dr. Mark E. Anderson, the Director of Johns Hopkins Medicine and Physician-in-Chief of the hospital system – the website is located at andersonlab.johnshopkins.edu
- As laboratory technician, assisted doctorate-level personnel with their projects by working with data analysis, Western blot, cell culture, PCR, gel electrophoresis, antibody assay, DNA recombination, and DNA sequencing

Academic Activities

Duke University Computer Science Undergraduate Union / Duke ACM

Durham, NC

EXECUTIVE BOARD MEMBER

May 2018 - PRESENT

- The DUCSUU is an organization for all computer science majors and minors on-campus
- Created a speaker series consisting of experts from the academic world and computer science industry, with a focus on university alumni, in order to facilitate a lasting network between graduates and current students
- DUCSUU also doubles as the Duke Student ACM Chapter, professionally connecting students to computer scientists around the nation

Duke Tech Incubator

Durham, NC

FOUNDER/DIRECTOR

Aug. 2017 - PRESENT

- Founded an on-campus organization in which 300+ students/faculty members formed collaborative teams and worked on projects in areas such as AI, VR, EduTech, Health Tech, app design and more
- Accredited as Duke's only official undergraduate start-up incubator, and teams have won awards in contests such as the international Hult Prize

HackDuke: Code for Good

Durham, NC

EXEC BOARD TREASURER

Feb. 2017 - PRESENT

- Organized hackathon for hundreds of college students from across the nation and managed \$100K budget to ensure that proper supplies and sponsorships were secured for success
- In the off-season, connected with 30+ nonprofits to help crowd-source software solutions that will drive impact in the Durham area

Delta Sigma Pi: Co-Ed Professional Fraternity

Durham, NC

EXEC BOARD, VP PROFESSIONAL ACTIVITIES

Aug. 2016 - PRESENT

- Coordinated and executed 10+ professional events per week related to tech, consulting, and finance with more than 70 participants hearing from noteworthy speakers and industry experts

TISS IC CAE Scholars Program

Research Triangle, NC

MEMBER

Aug. 2016 - PRESENT

- The Triangle Institute for Security Studies Intelligence Center for Academic Excellence
- Gained understanding of the intelligence mission through available courses and enrichment programs, including workshops, lecture series, and unique collaboration programs with intelligence community agencies

Duke Undergraduate Machine Learning

Durham, NC

MEMBER

May 2016 - PRESENT

- Participated in premier student organization which focuses on applying machine learning concepts in real-world and industry settings
- Attended datathons, workshops, and speaker series to increase exposure and familiarity with techniques and practices of machine learning and data science

Venn (Social Media App)

Durham, NC

PERSONAL PROJECT

Dec. 2016 - May 2017

- Created iOS social media app that allowed on-campus groups to form connections with each other by holding virtual “mixers”
- Development team used Swift (XCode) and utilized analytic software to generate user interaction and engagement metrics

Duke Global Entrepreneurship Network

Durham, NC

UNDERGRADUATE CO-DIRECTOR

Apr. 2016 - Aug. 2016

- Facilitated high volumes of communication within a network of 6,000+ members resulting in DukeGEN events in 10+ major international cities during the Spring of 2016