

WOO SEOK JUNG

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EDUCATION

University of Puget Sound, Tacoma, WA

August 2016 – May 2020

B.S. in Mathematics & Computer Science

GPA: 3.79

Relevant courses: Mathematical Statistics, Advanced Applied Statistics, Probability Theory, Mathematical Modeling, Optimization, Algorithms and Data Structures, Software Engineering, Operating Systems, Database Management Systems

DIS (study abroad), Copenhagen, Denmark

Fall 2019

Relevant courses: Artificial Neural Networks and Deep Learning, Artificial Intelligence, Computational Analysis of Big Data

RESEARCH EXPERIENCE

McCormick Summer Research Scholar

Summer 2019

University of Puget Sound

Tacoma, WA

“Generating Artificial Mouse Ultrasonic Vocalizations using Generative Adversarial Networks”

- Applied a complex Morlet wavelet transform to raw mouse vocalization recordings to produce visual representations in the form of scalograms.
- Took and downsampled 1-second slices of visible mouse calls.
- Implemented a generative adversarial network model trained using NVIDIA’s progressive training methodology and produced promising results for 16×32 and 32×64 resolution scalogram slices.

WORK EXPERIENCE

Computer Science Assistant

2018 – 2019

University of Puget Sound

Tacoma, WA

- Assisted professors as a TA, grader, and afternoon tutor for Introduction to Computer Science, Data Structures, and Architectures courses.

Mathematics Assistant

2017 – 2019

University of Puget Sound

Tacoma, WA

- Assisted professors as a grader for Introduction to Applied Statistics and Calculus I & II courses.
- Worked as an afternoon tutor for Linear Algebra, Multivariate Calculus, and Applied Statistics courses.

IT Intern

June – August 2018

First Choice Bancorp

Cerritos, CA

- Designed and programmed scripts for Windows AD group policies as part of merger and acquisition process.
- Assisted in migrating mail servers and transitioning mobile device management platforms for over 300 users and user groups as part of the m&a.

Research and Development Intern

NOVAtime Technology Inc.

May – July 2015

Diamond Bar, CA

- Developed a JavaScript visualization of a time clock for a simpler hierarchical overview.
- Researched and developed Korean language localization for the time clock interface.
- Presented the projects before the company's Board of Directors and Executives.

PROJECTS

Trump Tweets Analysis

Fall 2019

github.com/wsjung/ANNADL_final

- Worked in a team of four to analyze patterns in Trump's tweets (@realDonaldTrump) to predict if from Android or iPhone device.
- Designed neural network models and selected for best validation accuracy based on raw and balanced datasets using Keras and TensorFlow.

Loggregate

Fall 2018

github.com/wsjung/loggregate

Scrum master, DBA

- Led a team of four in developing a study group management platform implemented using the Laravel PHP web framework.
- Defined a BCNF optimized SQLite database schema and populated it using a Python script which collected course information from the web

Quantitative Investment Analysis

Fall 2018

github.com/wsjung/cs240

Data collector, DBA

- Scraped stock and Twitter data from the web using the Twitter API and Python's BeautifulSoup package.
- Designed a script to automatically collect daily stock and Twitter data using cron
- Stored collected data in a BCNF optimized MySQL database.

EXTRACURRICULAR UNIVERSITY SERVICE

Chair, *University of Puget Sound ACM Student Chapter*

2017 – 2019

Secretary, *University of Puget Sound Mathematics Club*

2017 – 2018

Webmaster, *University of Puget Sound ACM Student Chapter*

2016 – 2017

AWARDS AND HONORS

McCormick Scholar Award

2019

Thomas and Hilda Jack Scholarship

Fall 2019

McGill Family Scholarship

Fall 2018, Spring 2019

Dean's List

Spring 2019, Fall 2018, Fall 2017

SKILLS

Computer Languages	Java, Python, R, C, MATLAB, JavaScript, PHP
Libraries	TensorFlow, PyTorch, Git, Flask, Laravel, Nodejs
Databases	MySQL, SQLite

AFFILIATIONS

Association for Computing Machinery
Upsilon Pi Epsilon Honor Society

REFERENCES

Available on request