Trang Ngo

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Personal Website: tngo04.github.io

EDUCATION

Northeastern University, Khoury College of Computer Sciences, Boston, MA   September 2022 – Present
MSc in Computer Science, expected December 2024

Tufts University, School of Engineering, Medford, MA   September 2015 – May 2019
BSc in Chemical Engineering, *summa cum laude,* **GPA:** 3.95

Past Coursework: Artificial Intelligence with Python, Object Oriented Programming, Mathematical Modelling, Mathematical Aspects of Data Analysis, Computing in Engineering with MATLAB, Programming in C++

Awards: Audrey Butvay Gruss Science Award, Karno Dean's Award for Academic Excellence and Leadership, Tau Beta Pi Scholars, The Prize Scholarship of 1882, Department of Chemical & Biological Engineering Prize

WORK EXPERIENCES

ZwitterCo, Inc.   May 2019 – July 2022
Engineer II   *Somerville, MA*
- Built pilot water treatment systems (budget $20,000+) for testing at client sites: prototyping, hardware assembly, electrical design, and development of LabVIEW automation system (both user interface and back-end processing)
- Supported customer pilot projects: system commissioning, troubleshooting, operator training, and data analysis
- Built customized lab systems and developed data acquisition software that handled all internal membrane testing
- Performed product tests that provided data crucial for acquiring new customers and commercial contracts

E Ink Corporation   June - August 2018
Summer Innovation Intern   *Billerica, MA*
- Programmed PIC microcontrollers (in C++) to record, process waveform data, and measure product performance
- Created Excel VBA scripts to extract key information and analyze data from large files

Deshlahra Research Group   December 2016 - November 2017
Researcher - Summer Scholars Grant Recipient   *Tufts University*
- Developed Linux scripts to perform computational catalyst simulations
- Automated data collection, data analysis, and lab device control by programming VBA and LabVIEW modules

Tufts University School of Engineering   January - May 2017
Teaching Assistant for Introduction to Computing in Engineering   *Tufts University*
- Led weekly computer labs and office hours to train students on engineering computational methods in MATLAB

PROJECTS

Caro Game and AI Player, Personal Project   Fall 2022
Java | Objected Oriented Programming | Unit Testing | Artificial Intelligence
- Developed a console version of Caro (complex Tic-Tac-Toe-like game) and AI player using mini-max algorithm

Web Development Projects, Odin Project Curriculum   Fall 2022
CSS | HTML | JavaScript
- Created a personal website from scratch and built several mini web-based projects (Landing Page, Etch-a-Sketch)

Monte Carlo Simulation of Blackjack Card Counting   December 2017
- Evaluated risks and returns of card-counting against other strategies through stochastic simulations in MATLAB

TECHNICAL SKILLS

Languages: Java, Python, C++, CSS, HTML, JavaScript, MATLAB, Excel VBA
Technologies: Linux, Git/GitHub, Slack, AutoCAD, Adobe Illustrator and Photoshop, Tableau, Minitab
Engineering: System Design, Field Engineering, Process Automation and Control with LabVIEW, Data Analysis