Aranjinsuren Enkhbat

617-992-5400 | aranjin.enkhbat@gmail.com | aranjine.com | linkedin.com/in/aranjin | github.com/aranjinsuren

EDUCATION

Brandeis University — Jan 2021 – Dec 2024
Bachelor of Science in Computer Science and Applied Mathematics, Minor in Economics — *Waltham, MA*
Majors and Minor GPA: 4.00/4.00 **Overall GPA**: 3.93/4.00
Relevant Coursework: Data Structures and Algorithms, Operating Systems, Natural language processing, Mathematics for Machine Learning, Scientific Data Processing, Statistics, Multivariable Calculus, and Linear Algebra
Awards: Wien International Scholarship, Dean's List (All Semesters)

EXPERIENCE

Teaching Assistant, Data Structures & Algorithms — Aug 2023 – Present
Michtom School of Computer Science, Brandeis University — *Waltham, MA*
- Spearhead recitations for an audience of 100+ students, effectively teaching and reinforcing key concepts in classic data structures including linked lists, stacks, queues, trees, hash tables, and graphs
- Conduct regular office hours, serving as a key resource in elevating students' comprehension of intricate sorting and fundamental graph algorithms such as depth-first search, breadth-first search, and single-source shortest paths
- Assess algorithms assignments for 120+ students weekly, providing specific feedback to improve modularity and coding efficiency, resulting in a 35% improvement in student performance throughout the semester

Data Science Intern — May 2023 – Present
Graduate School of Arts and Sciences, Brandeis University — *Waltham, MA*
- Engineer a Natural language processing model to process 2,300+ graduate applications, improving candidate analysis efficiency and accuracy by over 20%
- Develop a machine learning model from analyzing 6,400+ course sections, optimizing offerings for 5,400+ students, leading to a 50% reduction in administrative planning time and significant cost savings

Head Teaching Assistant, Advanced Programming in Java — Jul 2022 – Aug 2023
Michtom School of Computer Science, Brandeis University — *Waltham, MA*
- Taught 200+ students fundamentals of encapsulation, inheritance, polymorphism, abstraction, and algorithms
- Oversaw a team of 5 teaching assistants to hold weekly recitations and office hours to help students develop a deeper understanding of Object-Oriented Programming
- Devised a programming assignment that tests recursion and backtracking with the supporting grading JUnit tests

PROJECTS / EXTRACURRICULARS

Director of Tech Consulting – TAMID Group — Jan 2023 – Present
- Lead a team of 19 student engineers to provide full stack and data analytics development for 2 Israeli start-up companies: **InBe** and **Weelrn**
- Direct the end-to-end process of client-project matching using Agile principles to ensure flexible project scoping and adaptive client expectation negotiations, ensuring optimal alignment of resources and successful project outcomes
- Mentor a group of 25 junior developers, providing guidance on coding best practices, project management, and professional development
- Uphold code quality standards by rigorously reviewing and testing over 150 commits, ensuring optimal functionality and adherence to best practices, resulting in a 30% decrease in post-deployment bugs

Concurrent UNIX Shell Command-Line Interface in Java — Feb 2023 – Mar 2023
- Engineered a Java-based implementation of a UNIX Shell command-line interface, featuring support for file system commands, text operations, redirection, piping, and background processes, replicating core functionalities
- Employed advanced Java techniques, including Multithreading, Object-Oriented Programming, and System Calls, to optimize code performance, successfully reducing execution time by more than 120%

TECHNICAL SKILLS

Languages: Java (advanced), Python (advanced), JavaScript (intermediate), HTML/CSS (intermediate)
Frameworks: React, NodeJS, Flask, Django, JUnit, Dash
Developer Tools: Git, Azure DevOps, Linux, Visual Studio, PyCharm, Eclipse
Libraries: pandas, NumPy, Scikit-learn, TensorFlow, PyTorch, Matplotlib, NLTK, BeautifulSoup, D3