

Jennifer Cheung

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Education

- Northeastern University**, BS in Computer Science Sep 2021 - May 2025
- GPA: 3.4/4.0
 - **Coursework:** Software Engineering, Algorithms and Data Structure, Object-Oriented Programming, Artificial Intelligence, NLP, Foundations of Data Science, Bioinformatics (Master's)
 - **Awards:** Dean's Presidential Merit Scholarship, Dean's List

Experience

- Data Analyst/Research Assistant**, Queens University – Belfast, Ireland Jan 2024 - May 2025
- **Bayesian sequential experiment research** on hybrid intelligence systems analyzing **algorithm aversion**.
 - Developed **random forest model** with controlled performance metrics.
 - Created **interactive experiment platform**, accommodating **1,000+ participants**.
 - **Bayesian t-tests** measured advice taking behavior achieved **95%** true positive rate to detect effects ($d = 0.5$).
- EXP Makerspace Lab Assistant**, Northeastern University – Boston, MA Feb 2023 - May 2025
- Oversaw **5,000 ft² makerspace** and provided technical and project support to **500+ weekly users**.
 - Conducted **safety and equipment training programs** for diverse audiences.
- SGA Software Engineer**, Northeastern University – Boston, MA Jan 2024 - May 2024
- Built a **high traffic website** with real-time check-ins.
 - Optimized **PostgreSQL queries**, RESTful APIs, and integrated secure access protocols.
 - Reduced server response times by **40%**.

Projects

- AnswerHub** | HTML/CSS, TypeScript, React.js, Next.js, Node.js, CI/CD, Agile 2025
- Front-end lead for developing accessibility-first Stack Overflow alternative with key accessibility features such as customizable display options (high-contrast modes, adjustable font sizes) and text-to-speech.
- NLP-Based Text Classification System** | Python, Keras, TensorFlow, BERT, NN 2024
- Developed a two-stage NLP system to classify text messages as spam (96.2% accuracy) or topics (93.8% accuracy). Proposed mobile app integration for real-world elderly assistance.
 - Achieved 93.5% end-to-end pipeline accuracy by integrating a neural network (spam) + BERT (topics).
- 2048 Solver** | Python, ExpectiMax, Matplotlib 2024
- Created autonomous, heuristic-driven program that solves 2048 and reduced computation time by >50% via state pruning, code optimization, and streamlining loop structures.
- Predictive Factors of Drug Use** | Python, Jupyter Notebook, Pandas/NumPy 2024
- Explored relationships between drug use frequency, personality traits (Five Factor Model), impulsivity (BIS-11), sensation seeking (ImpSS), and demographics.
 - Trained 3 Python ML models on a dataset of 1,885 individuals (UCI), using Jupyter Lab for preprocessing, exploratory analysis, and visualization.

Skills & Involvements

Languages: Python, Java, SQL, HTML, CSS, JavaScript, TypeScript

Frameworks/Tools: REST APIs, Flask, React.js, Next.js, Node.js, AWS, Scikit-learn, PostgreSQL, AWS

Involvements: Little Brothers - Friends of the Elderly (**Volunteer**), Forge (**Software Engineer**), TriSigma (**Sisterhood Chair**), Asian Student Union (**Mini/Mentor**), Chinese Student Association (**Culture Show MC**)