LAURA CHEN

xxxxxx@nyu.edu • +1 (xxx)-xxx-xxxx • linkedin.com/in/laurachencodes/ • github.com/laura-codess

EDUCATION

New York University (NYU)   **New York City, NY**
Bachelor of Arts in Computer Science   *Expected May 2026*
- **Relevant Coursework**: Data Structures, Basic Algorithms, Computer Systems Organization, Operating Systems, Natural Language Processing, Linear Algebra, Discrete Mathematics, Data Management & Analysis, Calculus 2 & 3, Probability & Statistics
- **Activities:** NYU Mathematics Society (President), HackNYU (Tech Developer), Women in Computing, Shanghai Study Abroad

WORK EXPERIENCE

Amazon Web Services (AWS)   **New York City, NY**
Software Development Engineer Intern   *Jun 2025 - Sep 2025*
- Engineered a new suite of End-to-End UI tests in TypeScript using Selenium and VSCode-Extension-Tester, replacing broken legacy tests and reducing flakiness by 80% for Amazon Q, a GenAI IDE extension. Committed over 5,000+ lines of code.
- Integrated the new test suite into the CI/CD pipeline and Github Actions, enabling automatic execution on pull requests.
- Authored a design document outlining test architecture, proposed solutions, and tradeoffs and presented it to engineers.
- Completed a stretch goal to port over the test suite to other IDEs such as IntelliJ and Visual Studio, allowing for reusability.

Vrinda Inc   **New York City, NY**
Software Engineer Intern   *Jun 2024 – Sep 2024*
- Built an internal tool using OpenAI's SDK, Next.js, and Express. Enables employees to efficiently search long PDF documents through a user-friendly, modern interface tailored for non-technical users, by calling tokens to the backend API.
- Modernized the company's website, increasing search engine optimization by 20% and customer engagement by 20%.
- Authored and published a 5-page research paper on AI's future in the clean energy and utility industry.

IBM   **Remote**
Software Developer Track   *Jun 2024 – Aug 2024*
- Collaborated with a remote team to develop a customized health insurance chatbot using IBM's WatsonX AI, implementing advanced NLP and LLM features. Did a live technical demo to company engineers to show potential business impact.
- Integrated Python back-end scripts with Flask APIs to handle user input processing, deployed on IBM Cloud with containerization via Docker and orchestration for scalability, fault tolerance, and low-latency performance.

SwiftXR   **Remote**
Software Engineer Intern   *Jun 2023 – Aug 2023*
- Redesigned the landing page UI using React, JavaScript, and CSS, optimizing performance and accessibility across browsers.
- Developed backend endpoints in Node.js and Express to serve landing page assets, integrating REST APIs and CDN caching.

SELECTED PROJECTS

Machine Learning Political Text Classification | *Python, TensorFlow, scikit-learn, Pandas, NLTK, Gensim*
- 35K+ labeled political news articles, applying tokenization, lemmatization, stopword removal, and TF-IDF feature extraction.
- Implemented LDA and LSTM models for topic classification, achieving 46% and 42% accuracy on large-scale datasets.
- Optimized preprocessing and model hyperparameters to improve coherence score by 20% on smaller datasets.

CloudChat | *Next.js, MongoDB, Clerk, Typescript, Tailwind*
- Developed a full-stack social media platform with a Next.js frontend, MongoDB database, and Clerk authentication, implementing modular React components and REST API integrations for scalable feature development.
- Implemented OAuth 2.0, WebSockets, search engine queries, activity feed, and had a growing community of 50+ users.

Galaxy Generator | *Three.js, WebGL, Javascript, HTML, CSS*
- Fully 3D website that renders a galaxy by using an Archimedean spiral generated by the native Three.js particle generator.

SKILLS

- **Languages**: Python, C++, C, Java, JavaScript, TypeScript, Go, HTML, CSS, SQL, Bash, Shell Scripting
- **Technologies**: React.js, Node.js, Next.js, AWS, MongoDB, PyTorch, TensorFlow, Pandas, Linux, Git, Docker, Firebase
- **Tools**: Git, Postgres, MongoDB, Google Cloud Platform, Figma, Amazon Web Services, Docker, Vercel, Jupyter
- **Concepts**: Software Engineering, Frontend, Backend, Data Analysis, Machine Learning