Gavin Lam

222 Montgomery Street Jersey City, NJ 07302
gglam1371@gmail.com | (917) 903-2917 | linkedin.com/in/gavin-g-lam/ | github.com/Gavin-Lam

EDUCATION

Stevens Institute of Technology, Computer Science Hoboken, NJ
Bachelor's Degree in Computer Science ***Expected* May 2026**

Relevant Courses: Discrete Structures, Data Structures, Comp Architecture and Organization, Algorithms, Systems Programming, Operating Systems, Database Management Systems, Artificial Intelligence, Data Mining, DevOps, Object-Oriented Programming.

SKILLS

Programming: JavaScript, TypeScript, Python, Java, C, C++, CSS, SQL, HTML/CSS
Frameworks: React, Next.js, Node.js, Express.js, LangChain
Databases/Libraries: PostgresSQL, MySQL, Microsoft SQL , MongoDB, Pandas, NumPy.
Cloud/DevOps: Git, AWS, Azure, Docker, Linux, Bash, CI/CD, Agile, Jira, Prometheus, Perforce, Swarm, Jenkins, Grafana

EXPERIENCE

Confidential Company (NDA) – Database & Backend Engineer | Next.js, SSMS, Azure **September 2025 – Present**

- Designed and implemented SQL Server schemas and queries to support scalable backend services.
- Built RESTful API endpoints integrated with Next.js frontend applications.
- Collaborated with developers in an agile workflow to translate business requirements into backend architecture decisions.
- Increased processing efficiency by 40% by architecting and implementing a centralized Next.js and SQL Server application that streamlined internal operations and reduced workflow bottlenecks.

Creative Intell – Software Engineer Intern | Javascript, Python **September 2024 – January 2025**

- Preprocessed specialized data to optimize and fine-tune a large language model, enhancing its accuracy and contextual relevance for targeted applications.
- Architected and developed a responsive glossary page with dynamic data handling and structured term organization, improving usability, maintainability, and content scalability.

Stevens Institute of Technology– Course Assistant | Linux, C **September 2025 – December 2025**

- Assisted in instructing students on cybersecurity concepts, including network security, encryption, and threat mitigation.
- Supported lab sessions and guided students in hands-on exercises through pwn.college.
- Reviewed assignments and provided detailed feedback, helping improve students' technical understanding and coding practices.
- Collaborated with the professor to develop course materials, troubleshoot labs, and enhance overall learning outcomes.

PROJECTS

ToDo | React, Node.js, JavaScript, TypeScript, CSS, Docker, Jira **March 2025-May 2025**

- Developed a full-stack task management platform using React frontend and Node.js backend following Scrum methodology.
- Designed RESTful APIs for task creation, prioritization, ranking, and user-based persistence with PostgreSQL integration.
- Containerized services with Docker to ensure consistent development and deployment environments.
- Managed sprint cycles, backlog grooming, and CI workflows using Jira and Git for version control.

PUBG Player Performance Prediction | PyTorch, Python, Google Colab **December 2025**

- Processed features from 6.3M+ PUBG player records using Pandas/ NumPy to predict top 10% match placement.
- Built and benchmarked 10+ ML models including LightGBM, Random Forest, Artifical Neural Networks, SVM, and CART.
- Performed hyperparameter tuning and cross-validation to optimize model performance, achieving ~90% classification accuracy.

Enterprise CI/CD Pipeline | Perforce, Swarm, Jenkins, Docker, Linux, DigitalOcean **September 2025 - December 2025**

- Deployed and configured 3 integrated DevOps services (Perforce, Swarm, Jenkins) in a cloud-based Linux environment.
- Designed a Jenkins pipeline integrating the Perforce plugin to fetch change lists and dynamically version build artifacts.
- Reduced manual document build process from ~5 minutes to <30 seconds per commit through pipeline automation.
- Containerized services using Docker, decreasing environment setup time by ~80% and ensuring reproducible builds.