Puyang He

puyang2004@gmail.com | 201-554-3195 | Rutherford, NJ | linkedin.com/in/puyang-he | github.com/Starscreen2

EDUCATION

Rutgers University — New Brunswick, NJ
Bachelor of Science in Computer Science, Minor in Data Science — *Graduation: May 2026*
Relevant Coursework: Intro to CS, Data Structures, Discrete Math — **GPA:** 3.63/4.00
Systems Programming, Computer Architecture, Intro to Data Science, Linear Algebra
Dean's List: Recognized for outstanding academic achievement for five semesters.
SAS Excellence Award: Outstanding academic performance in the 2023/24 school year

EXPERIENCE

Project Lead, Data Analytics – Fidelis Animal Health — 09/2024 – 12/2024
Rutgers MBS Externship Exchange — *Remote*
- Engineered a script that reduced data sorting from days to just 15 minutes, significantly boosting efficiency.
- Designed AWS data pipeline to automate extraction and QuickBooks integration, cutting manual entry by 40%.
- Led a team of 6 to unify 8,000+ records from 5+ distributors into a master dataset.
- Created a dashboard for key metrics, improving reporting speed by 35% and enabling faster decisions.

Technical Consultant – Fidelis Animal Health — 12/2024 – Present
Consulting — *Remote*
- Optimized existing data pipeline, reducing query execution time by up to 60%.
- Debugged and enhanced automation scripts, eliminating critical errors and improving data accuracy.
- Refactored AWS-based workflow, reducing latency and ensuring seamless integration with QuickBooks.
- Implemented error reporting features for queries, reducing debugging time by 3x.

Software Engineering Fellow — 01/2024 – 05/2024
Technology Fellowship Program — *New Brunswick, NJ*
- Programmed a secure user authentication system using Python and SQL, streamlining login management.
- Optimized client-server communication to enhance system reliability and efficiency.
- Implemented encryption and best practices for password storage, ensuring robust security.
- Reduced authentication processing time by 30% and improved system response time by 25%.

PROJECTS

AI Discord Bot — 06/2024 – Present
- Programmed a command-based moderation system, cutting team moderation time by 50% (20+ hours weekly).
- Integrated an LLM model to enhance chatbot responses, increasing user engagement.

Rutgers Classes Database, Comprehensive Course Catalog System — 10/2023 – 01/2024
- Designed a centralized front-end database for 2,000+ Rutgers University courses, streamlining class searches.
- Enhanced user experience by optimizing search functionality, reducing lookup time by 3x compared to WebReg.

Bing Rewards Automator — 10/2023 – 11/2023
Selenium WebDriver, Python (Chromium-Based Automation) — *Personal*
- Developed a Python automation script to perform daily searches in Microsoft Edge.
- Automated Bing search behavior, enabling users to earn up to $5 in redeemable gift cards per month.

Simple SolarSystemExplorer — 1/2025 – Present
- Constructed a 3D interactive solar system with React, Three.js, and TypeScript, featuring real-time controls.
- Engineered RESTful API with Express.js and integrated a PostgreSQL database using Drizzle ORM.
- Utilized TailwindCSS, Radix UI, and TanStack Query for a modern, responsive frontend.

SKILLS

Programming Languages: Python, Java, JavaScript (TypeScript), HTML/CSS, C
Frameworks & Libraries: React.js, Node.js, Flask, Three.js, Express.js, TailwindCSS
Tools & Platforms: Linux, Git, AWS Services, Google Colab, PostgreSQL, Drizzle ORM
Software & Design: Adobe Photoshop, Premiere Pro, Lightroom