Noah Fong Neuweg

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TECHNICAL SKILLS

• Programming: Python (pandas, NumPy, scikit-learn, matplotlib, plotly, seaborn, bs4, selenium), SQL, Git/Jupyter • Machine Learning & Data Science: Regression, Classification, Random Forests, Gradient Descent, Vectorization, Model Evaluation • Algorithms & Data Structures: BFS, DFS, Dijkstra, Bellman-Ford, Graph Clustering, Quickselect, Hashing • Data Visualization: matplotlib, seaborn, plotly • Other Tools: Excel (data cleaning, pivot tables, reporting), Circuit Design, Basic Assembly, MS Office Suite • Additional: Scuba Certified

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PROJECTS

League of Legends Match Predictor (2023–2025)

• Analyzed over 337,000 professional match records with 164 attributes across three competitive seasons • Developed Random Forest classifiers with engineered features to model match outcomes • Achieved 87% test accuracy and produced visual reports highlighting influential gameplay factors

Treasury Bills Scraper & Dashboard

• Created automated Python pipeline to retrieve TreasuryDirect auction data with Selenium • Standardized raw results into yield percentages and organized outputs for analysis • Designed time-series visualizations to track interest rate trends across multiple maturities

Applied Data Science Pipeline (DSC 80)

• Constructed end-to-end data workflow on messy real-world dataset • Applied vectorized NumPy operations to improve processing efficiency • Conducted hypothesis testing, logistic regression, and performance evaluation with clear visual summaries

Algorithms & Graph Theory (DSC 40B)

• Programmed BFS, DFS, Dijkstra, and Bellman-Ford algorithms in Python to study pathfinding • Explored clustering and k-NN distance search with quickselect to compare efficiency • Conducted runtime benchmarking and illustrated trade-offs between algorithmic approaches

Andrew Ng Machine Learning Specialization

• Completed coursework on supervised learning, feature scaling, and gradient descent • Implemented housing price predictor with regularization, residual analysis, and learning curves • Gained practical experience with full ML pipeline from preprocessing through evaluation

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EXPERIENCE

Student Computing Support Technician – Jacobs School of Engineering, UC San Diego (Dec 2023 – Present)

• Repaired and maintained laptops, desktops, and peripherals for faculty and students • Performed secure data wipes and prepared systems for reassignment • Configured software environments and imaged machines for deployment • Documented service activity and produced Excel reports for asset tracking

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EDUCATION

University of California, San Diego — B.S. Mathematics (Applied Data Science), Expected 2026

Relevant Coursework: Data Management (DSC 100), Data Visualization (DSC 106), Probabilistic ML (DSC 140A), Stochastic Processes (MATH 180C), Applied Linear Algebra (MATH 102), Real Analysis (MATH 142A), Algorithms & Graph Theory (DSC 40A/B), Applied Data Science Lifecycle (DSC 80)