JAMIE NAGY

Web Developer & Python Developer

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CAREER SUMMARY:

Full Stack Developer skilled in React, Vue.js, Node.js, Flask, Django and database technologies (PostgreSQL, MongoDB), complemented by a strong Python background in automation, web scraping, data science, and machine learning. Familiar with full development cycle.

WORK EXPERIENCE:

Full Stack Web Developer & Solutions Architect

Freelance | June 2023 - Present

- Independently design and develop websites that fully satisfy client requirements.
- Offer a wide array of solutions, including bug resolution, automation bot design, development process guidance, graphical user interface creation, and the development of algorithms and models.

Medical Office Receptionist

AE & LY Medical Associates, PLLC | June 2022 - Present

- Efficiently multitasked administrative duties and maintained an organized front desk, improving patient experiences through excellent customer service.
- Handled patient inquiries, scheduled appointments, and ensured effective communication between patients and healthcare professionals.

Waiter   So Far So Good | April 2021 - June 2022

EDUCATION:

CUNY Queensborough Community College | 2022-2024
Associate in Science - Computer Science and Information Security

CUNY Hunter College | 2024-2026
Bachelor in Science - Computer Science

PROJECT: For a complete portfolio, visit https://honeymeat.github.io/

Echoreads - https://echoreads.vercel.app/   *Fully Independent Work*
An Article sharing full stack web app with advanced features and RESTful API designed & developed entirely by myself. Developed using React, Node.js, Express, and PostgreSQL, featuring a responsive and accessible design with Bootstrap, CSS, and SCSS.

- Implemented secure authentication with email/password, Google OAuth, and Google reCAPTCHA v3, alongside HTTPS and session management.
- Managing CORS settings to ensure secure cross-origin requests and implemented partitioned cookies to adapt to Chrome's latest security policy in 2024
- Crafted a secure RESTful API with advanced validation to prevent unauthorized access and SQL injections, supporting complex query parameters for customized content.
- Enabled user features like creating, editing, deleting posts, endorsing and commenting others' posts, with a user-friendly profile management system. Images are managed through GCP cloud storage. Posts include categories and tags and are managed via a structured database.

- Automatically dispatch verification codes and subscription confirmation emails to users.
- Optimized performance using React hooks and modern backend coding strategies.
- Integrated a backend-powered search functionality for posts.

AstroInsight - https://astro-insight.vercel.app/   *Fully Independent Work*
Sub-Module: Space Flight Mission Outcome Prediction
Developed predictive models to forecast space flight mission outcomes, focusing on accuracy and failure detection. Expertly managed data preprocessing and applied a range of machine learning models, demonstrating proficiency in Python, Pandas, NumPy, and Scikit-learn:

- Developed a custom bot using Selenium to scrape global space flight data spanning from 1957 to the present.
- Created compelling data visualizations using Plotly Express, Matplotlib, and Seaborn.
- Implemented Random Forest with balanced weights and XGBoost with hyperparameter tuning to optimize performance.
- Utilized SMOTE for class imbalance and developed ensemble methods, including a Voting Classifier and a Stacked Ensemble with Logistic Regression.
- Enhanced model confidence with a Calibrated Ensemble and prioritized minority class recall with a custom-tuned XGBoost.
- Employed SHAP for feature importance analysis, guiding interaction term engineering to improve model interpretability and accuracy.
- Demonstrated advanced model evaluation skills, optimizing for precision-recall balance and employing GridSearchCV for systematic hyperparameter tuning across various models.

SKILLS:

Front End Development:
- React.js, Vue.js
- Redux, MobX
- HTML, CSS, JavaScript(ES6+), SCSS
- TypeScript
- Next.js
- Bootstrap, jQuery
- Git & GitHub
- Webpack & NPM
- Jest, Storybook, Cypress, TestCafe

Back End Development:
- Node.js & Express.js
- RESTful API design
- Third-party APIs
- GraphQL Architecture
- PostgreSQL & MongoDB
- JWT & OAuth 2.0
- AWS & GCP & Azure
- Microservices Architecture
- Security Management

Python Development:
- Selenium
- BeautifulSoup
- Flask
- Django
- Tkinter
- PyQt
- Pygame

Data Science & Machine Learning & AI:
- Pandas
- Numpy
- Plotly & Matplotlib & Seaborn
- Scikit-Learn
- Tensorflow
- Statsmodels
- Keras
- PyTorch
- Advanced Mathematics

Miscellaneous:
- Linux and Bash
- Efficient Communication
- Time Management