JOHNNY DUNN

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Summary

Full-stack engineer specialized in NLP versed in E2E machine learning, training / fine-tuning models, prompt engineering, RAG, RLHF, optimizing LLM setups. Main expertise in Python, TypeScript, and Vue / Nuxt. Actively builds and blogs OSS.

Professional Experience

Tilting Point   *New York, NY*
Senior Blockchain Engineer   Nov 2021 – Feb 2023
- Developed ERC-20, ERC-721 smart contracts with custom metadata properties, REST APIs managing NFT metadata, blockchain indexing microservices for transaction events, internal airdropping API, deployed with Docker / Kubernetes. Architected secure multisig wallet operations; rescued $1 million+ in MATIC from missent transactions.

eBay   *New York, NY*
Software Engineer 2 (Full-Stack)   June 2020 – April 2021
- Extended REST APIs in Scala & Spring-Boot to service data asynchronously based on item selections to UI, improving UX.
- Created E2E infrastructure enabling ML teams to test models in dev / staging sandboxes to see results in web UI, verifying data integrity with scrapers. Set up Jenkins pipeline in Kubernetes to connect UI libraries, SSR services, and ML data for ads.

Freelance (Linkby, Edelman, HereAfterLegacy, Grapple Media, Notebrush)   *Remote*
ML / NLP Engineer, Software Engineer, Product Designer *(Contract)*   Nov 2018 – Jan 2021; June 2024 - Nov 2024
- Built E2E multi-model pipeline in sklearn, PyTorch, streamlit, for ads for Linkby. Able to train & evaluate (RF, SVM, naive Bayes, etc.) from one pipeline / API in categorical, numerical, text data with heuristics-based transforms. (Jun - Nov '24).
- Sold sentiment analysis model & dataset to HereAfterLegacy.ai. Continued full-stack work to deliver functional MVP ('20–'21).
- Trained models in PyTorch for photo filter stylization from film media to selfies for Edelman's interactive AI exhibits ('19).
- Created user stories, animated wireframes and functional product demo for Notebrush's MVP. (Nov '18 - Jan '20)
- Built web crawlers for blogs / news sites and trained fake news classification models for Grapple Media. (Dec '19 - July '20).

Amelia.ai   *New York, NY*
Cognitive Implementation Engineer   June 2017 - December 2017
- Implemented features for enterprise virtual assistant for clients following agile practices in proprietary scripting framework.

Projects

- **PortaPack** - Bundles any website into a single HTML file; 85% test cov; CI / CD for releases.   2025
  https://github.com/manicinc/portapack
- **Restless** - Always-on anti-malware software using malicious language processing (HAN model) techniques.   2020
  https://github.com/jddunn/restless
- **Dementia progression analysis** - Dementia progression classifier for MRIs using CNN and transfer learning.   2018
  https://github.com/jddunn/dementia-progression-analysis

Education

- **Bachelor of Fine Arts in Design and Technology** (May 2017) – Parsons School of Design

Awards

- 5th Place, AT&T National VR and AR Challenge, with THiNKIMMERSIVE team. (http://npe100.com/ / mobile app)   2017
- XRC Labs Young Entrepreneurs Residential Program   Spring 2017

Skills

Programming Languages	Python | Go / Golang | JavaScript | TypeScript | Java | Scala | C# | SQL | Solidity
Frontend	Vue.js | Vite | React | Next.js | Redux Toolkit (RTK) | Zustand | Tailwind | D3.js | three.js | SCSS
Backend	FastAPI | Django | Keras | TensorFlow | PyTorch | CUDA | XGBoost | ethers.js | HardHat | Geth | LangChain | Hugging Face | Transformers | OpenAI | OpenCV | Stable Diffusion | spaCy | NumPy | SciPy | pandas | scikit-learn | Celery | BS4 | Selenium | Puppeteer | NestJS | Express | Fastify
Databases	MySQL | Postgres | Prisma | SQLAlchemy | Pinecone | Weaviate | MongoDB | GraphQL | Elasticsearch | Kibana | Redis | RabbitMQ
DevOps	AWS (Lambda, EC2, Elastic Beanstalk, Amplify, RedShift) | Docker | Kubernetes | Jenkins
Tools / Software / Other	Unity | Git | Postman | Linux | Burp Suite | Adobe Creative Suite | Processing | openFrameworks | SketchUp | PyCharm | IntelliJ | Visual Studio | PWAs | Electron | Capacitor | Android Studio