

# JOHNNY DUNN

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## Summary

Full-stack dev with ML / NLP and web3 background, experienced working with LLMs, smart contracts, DAOs, and NFTs / tokens and wallets integrations. Main expertise in Solidity, Python, TypeScript / JavaScript, and React / Next.

## Professional Experience

### Tilting Point

New York, NY

Senior Blockchain Engineer

Nov 2021 – Feb 2023

- Acted as blockchain architect for marketplace backend and infrastructure for tokens / NFT integrations in Unity on Polygon.
- Developed ERC-20, ERC-721 smart contracts with custom metadata properties, REST APIs managing NFT metadata, blockchain indexing microservices for transaction events, and an internal airdropping service, in TypeScript 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 (Grapple Media, Notebrush, Edelman, HereAfterLegacy)

Remote

NLP Engineer / Software Engineer / Product Designer (Contract)

November 2018 – Jan 2021

- Created user stories, animated wireframes and functional product demo for Notebrush's MVP.
- Developed web crawlers with automated pipeline for data to train news classifiers and sentiment analysis models for Grapple Media. Created a recommendation system for news stories. Developed infrastructure in Python and deployed with Docker.
- Trained models in PyTorch to create photo filters to apply stylization from films to selfies for Edelman's interactive AI exhibits.
- Sold sentiment analysis model and dataset to HereAfterLegacy, and continued development work to deliver their MVP.

### IPSoft

New York, NY

Cognitive Implementation Engineer

June 2017 - December 2017

- Implemented modules for virtual assistant AI Amelia for corporate client-facing solutions following agile practices.
- Improved workflow and productivity by writing data processing scripts to be distributed to internal teams.

## Projects

- **Quire.work** - Create autonomous AI agents able to perform / automate any type of task, powered by LLMs. 2023  
<https://quire.work>
- **Fortune.day** - Web-based metaverse project with web3 authentication and tokenized membership / economy. 2020  
<https://fortune.day>
- **Restless** - Always-on anti-malware software using malicious language processing (HAN model) techniques. 2020  
<https://github.com/jddunn/restless>
- **Text RPG Engine** - ES6 JS library to create text adventures / interactive fiction with custom player interactions. 2020  
<https://github.com/jddunn/text-rpg-engine>

## Education

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

## Awards

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

## Skills

Programming Languages	Solidity   Python   Go / Golang   JavaScript   TypeScript   Java   Scala   C#   SQL
Frontend	React   Next.js   Redux Toolkit (RTK)   TanStack Query   Zustand   Jotai   ChakraUI   Shadcn-ui   Tailwind   D3.js   three.js   Bootstrap   SCSS   Less
Backend	FastAPI   Django   RabbitMQ   Keras   TensorFlow   PyTorch   CUDA   XGBoost   Spark   PySpark   ethers.js   HardHat   Geth   LangChain   Hugging Face   OpenAI   OpenCV   Stable Diffusion   NumPy   SciPy   pandas   scikit-learn   Celery   BS4   Selenium   Puppeteer   NestJS   Express
Databases	MySQL   Postgres   Prisma   SQLAlchemy   Pinecone   Weaviate   MongoDB   DynamoDB   GraphQL   Hadoop   Spark   Kafka   Elasticsearch   Redis
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