

# JOHNNY DUNN

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## Summary

Full-stack dev experienced in building machine learning infrastructure and data pipelines, training and deploying custom models, and fine-tuning LLMs. Experienced in web3 / full-cycle smart contract development, MEV bots, and NFT integrations in web and games.

## Professional Experience

### **Tilting Point**

New York, NY

Senior Blockchain Engineer

Nov 2021 – Feb 2023

- Acted as blockchain architect to build infrastructure and marketplace backend for NFT and token integrations in mobile games publisher SDK on Polygon / MATIC chain, working with MATIC engineers for best practices.
- Developed ERC-20, ERC-721 smart contracts with custom metadata properties, APIs for managing NFT metadata, and internal airdropping service. Architected secure multisig wallet operations; rescued \$1 million+ from missent transactions.

### **eBay**

New York, NY

Software Engineer 2 (Full-Stack)

June 2020 – April 2021

- Worked on REST API in Scala & Spring-Boot to service data asynchronously based on item selections to UI, improving UX.
- Created deployment infrastructure process enabling E2E developer experience for backend / ML teams. Set up Jenkins pipelines to connect underlying UI libraries, SSR backends to serve web data, and APIs returning ads data from ML models.

### **Freelance (Grapple Media, Notebrush, Edelman, HAL)**

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 crawling infrastructure with automated pipeline to feed data into training news classifiers and sentiment analysis models for Grapple Media.
- Trained models to create photo filters applying aesthetics of specific films to selfies for Edelman's interactive AI exhibits.
- Developed / sold sentiment analysis model to HAL (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** - Turn static forms and interviews into conversational experiences powered by LLMs. 2023  
<https://quire.work>
- **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>
- **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

- 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

<b>Programming Languages</b>	Solidity   Python   Golang   JavaScript   Java   Scala   C#   SQL   HTML   CSS   SCSS
<b>Frontend</b>	React   Next.js   Redux Toolkit (RTK)   ChakraUI   NextUI     Tailwind     D3.js   three.js   Bootstrap
<b>Backend</b>	ethers.js   HardHat   LangChain   Hugging Face   OpenAI   FastAPI   Django   Tornado   Keras   TensorFlow   PyTorch   OpenCV   spaCy   CoreNLP   NumPy   SciPy   pandas   scikit-learn   Celery   Scrapy   BS4   Selenium   Flashbots   Geth   Gnosis Safe
<b>Databases</b>	MySQL   Postgres   Prisma   SQLAlchemy   MongoDB   GraphQL   Hadoop   Elasticsearch   Redis
<b>DevOps</b>	AWS (EC2, Elastic Beanstalk, Amplify, RedShift)   Docker   Kubernetes   Jenkins
<b>Tools / Software / Other</b>	Unity   Git   Postman   Linux   Burp Suite   Adobe Creative Suite   Processing   openFrameworks   SketchUp   PyCharm   IntelliJ   Visual Studio   PWAs   Electron   Capacitor   Android Studio