

# Phillip Dupuis

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🌐 <https://www.linkedin.com/in/phillip-dupuis/> 📄 <https://github.com/phillipdupuis>

## ABOUT ME

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I am an engineer with over 10 years of professional experience in full-stack development, distributed computing, and AI/LLM integrations. I have a strong background in building scalable applications for healthcare, quantitative finance, and data analytics, with expertise in Python, Node/TypeScript, React, and cloud infrastructure technologies.

## SKILLS

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**Languages:** Python, TypeScript, JavaScript, Rust

**Frameworks and Libraries:** Django, React, Next.js, Dask, Pandas, NumPy

**Databases and Storage:** PostgreSQL, Redis, MongoDB, Amazon S3

**DevOps and Deployment:** Docker, Kubernetes, CI/CD pipelines, Git/GitHub, Github Actions

**AI and Machine Learning:** LLM integrations, ChatGPT function calling, Embeddings, Semantic search

**Cloud and Distributed Computing:** Distributed systems, Dask clusters, Cloud deployment strategies

**Soft Skills:** Leadership, Team management, Mentoring, Problem-solving, Communication, Collaboration

## WORK EXPERIENCE

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### Senior Software Engineer

01/2020 to present

Man Numeric

Boston, MA

- Created a feature-complete portfolio analytics platform over the course of four years.
- Built REST APIs, web applications, excel plugins, slack bots, and browser extensions.
- Published various node/python packages for internal use.
- Pioneered AI/LLM integrations with existing services within the company.
- Optimized legacy workflows via parallelization and distributed caching.

### Software Developer

08/2014 to 12/2019

MEDITECH

Framingham, MA

- Led development of an emergency room wait list enhancement that streamlined hospital workflows and automated critical processes; it reportedly has led to decreased wait times.
- Developed the proration algorithm, rule-building tools, statistical analysis routines, claims, and statements necessary for 'package billing', a practice popular in medical tourism; the resulting software is currently used in Ireland, the Middle East, and Singapore.

## PROJECTS

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### pydantic-to-typescript

<https://github.com/phillipdupuis/pydantic-to-typescript> ☆288

A python package for automatically generating TypeScript types from Pydantic models. It's useful for keeping your front-end and back-end models in sync. I created this while working on a large project with a team of contractors, and it seems to be broadly useful.

## EDUCATION

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### BS in Applied Mathematics-Biology

09/2010 to 05/2014

Brown University

Providence, RI

My coursework focused primarily on genomics, probability, statistical inference, and computer programming.