# Phillip Dupuis

phillip_dupuis@alumni.brown.edu Cambridge, Massachusetts
https://www.linkedin.com/in/phillip-dupuis/ https://github.com/phillipdupuis

## ABOUT ME

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

Django | Dask | Pandas | NumPy | SciPy | FastAPI | C and Rust extensions

Node | React | Next | Astro | Vite | Playwright | Jest | Cypress

Docker | Kubernetes | Jenkins | GitHub Actions | Azure | AWS

Agentic workflows | Function/Tool calling | Custom Integrations | Vector databases | RAG

PostgreSQL | Redis | MongoDB | Amazon S3 | Elasticsearch

Leadership | Team management | Mentoring | Problem-solving | Communication | Collaboration

## WORK EXPERIENCE

**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

**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

**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.