Chase M. Philpot

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Bio

- Full stack software engineer with prior project management experience
- Former business owner, former Fulbright, former coach of two National Sports Teams
- I thrive in fast-paced, challenging environments and foster high-performing team dynamics

Technical Skills

Languages: JavaScript, TypeScript, SQL, HTML/CSS

Frameworks & Libraries: React, Express, Zod, Astro

Cloud: AWS API Gateway, CDK, SDK, EC2, ECS, EFS, RDS, Step Functions, S3, CloudFront, SNS, SQS, Bedrock, Digital Ocean Droplets

Other: Git, Github, Node.js, PostgreSQL (incl. pgvector), MongoDB, Docker, Nginx, Bash, Jest, HTTP, REST, Postman, Bash, OpenAPI, Claude, Cursor

Technical Experience

Software Engineer & Open Source Contributor, Mozilla Firefox　　　　**July 2025 - Present**

- Collaborated with Mozilla engineers and core maintainers to contribute production-grade patches for complex browser bugs within Firefox's review-driven development process navigating a 31M+ line codebase spanning 25+ years. Tools used: Git, Bugzilla, Phabricator, Searchfox, and Mochitest.

Software Engineer & Co-Creator, [Frame](#)　　　　**July 2024 - July 2025**

- Frame is an open-source multimodal image embedding and search platform that deploys directly to a user's Amazon Web Services account.
  - Designed image validation and pre-processing pipelines for multimodal embedding models.
  - Cut operational costs by implementing cloud architecture that scales-to-zero when idle.
  - Built an SDK to streamline developer integration and simplify interaction with the Frame API.
  - Automated deployment via CDK-powered CLI, reducing 30+ step workflow to a few commands.
  - Authored a comprehensive case study outlining the problem space, technical trade-offs, and architectural decisions that led to the development of Frame: https://www.frame-platform.com

Software Engineer, Open Source Projects　　　　**November 2022 - July 2024**

- BetweenUsRAG
  - Retrieval-augmented generation (RAG) chatbot that enables users to query and receive context-aware answers from an online foreign language textbook using the OpenAI API, Node.js, TypeScript, PostgreSQL/pgvector, and Instructor.
- [Hook Haven](#):
  - Designed, implemented, and deployed (via a DigitalOcean Droplet) a real-time webhook debugging tool using TypeScript, Express, MongoDB, PostgreSQL, and Nginx-based routing enabling seamless integration and monitoring for developers.
  - Built a user-friendly interface with React to visualize webhook data, reducing integration time.
- eCart:
  - Built a feature-rich e-commerce shopping cart with React, Node.js , Express, and MongoDB, supporting product management, and a responsive UI.
- [Buddy Base](#):
  - Built a contact manager app to manage contact emails and phone numbers with dynamic filtering.
- Todo List:
  - A full-stack web application for keeping track of your todos

Leadership Experience

Project Manager, Huawei Technologies, Moscow, Russia　　　　**2018 - 2020**

- Managed publication of telecom industry book requiring a 5+ member team to write, edit, print, and distribute.

Head of Russian Language Department, Middleboro Public Schools, Massachusetts　　　　**2021 - 2022**

- Full-scale curriculum overhaul and implementation for first ever hybrid learning year.

Assistant & Head Coach for Adult & Youth Sports Programs　　　　**2012 - Present**

- Coached two National Teams in international competitions, founded a youth program (2014 - '15).
- Collaborated with US Embassies to deliver gear to and lead annual skills-development camps for programs.

Education

Middlebury College, M.A. in Russian Language and Literature　　　　**August 2017**
Dickinson College, B.A. in Middle East Studies and Russian Language　　　　**May 2014**