Matthew Peveler

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WORK EXPERIENCE

TigerData (Formly Timescale) — Remote
Sr. Software Engineer 2 — *Apr 2024 - Present*

- Helped develop internal LLM based agents to assist employees answer support questions and project progress tracking.
- Developed internal tool to perform GEO analysis for the company.
- Helped develop pgai semantic catalog for text-to-sql use cases
- Helped unify aspects of the Timescale web console and PopSQL cloud products.
- Helped develop AI assistant features in PopSQL.
- Worked on assorted bugfixes, features, and tech debt in Timescale web console (React) and PopSQL products.

PopSQL (acquired by Timescale) — Remote
Software Engineer — *Nov 2020 - Mar 2024*

- Worked across the entire stack (Ruby on backend, TypeScript/React for frontend) to deliver new features and fix bugs.
- Helped architect new system to handle cloud database connections and streamed queries to reduce execution time and memory overhead.
- Helped develop various internal practices and procedures around developing the codebase.
- Improved various front-end efficiency bottlenecks through algorithmic analysis.
- Worked on developing new and improving existing database adapters.
- Developed prototype dbt integration for the core product.
- Helped manage underlying infrastructure as defined through Terraform.
- Helped mentor junior engineers on the team.

Cognitive and Immersive Systems Laboratory at RPI — Troy, NY
Research Assistant — *Fall 2016 - Fall 2020*

- Conducted research for resolution of intents and entities from multi-modal contexts.
- Integrated different spatial context systems for gestural input to large-scale environments.
- Acted as technology liaison between RPI and IBM labs.
- Developed modules written in Node.js, and Python utilizing MongoDB, PostgreSQL, RabbitMQ, and Redis.
- Implemented usage of the formal logic and reasoner to handle theory of mind reasoning of agents.
- Developed collaborative in-person technologies for intelligence analysis.
- Thesis on formalizing intelligent room behavior for use in plan and goal recognition algorithm.

IBM - Brasil — Rio de Janeiro, Brasil
Pesquisador / Cientista - Junior (Junior Researcher) — *September 2019 – December 2019*

- Developed a new digital sticky note tool for in-person design thinking meetings.
- Created a multi-user pointing system utilizing cellphone sensors for large-scale wall displays.
- Investigated camera-based approach for interacting with large-scale wall displays using transparent markers.
- Created and ran several user studies judging effectiveness of designed interfaces based on NASA Task Load Index.
- Contributed 33 patches to the IBM Watson Node.js SDK libraries.

EDUCATION

Rensselaer Polytechnic Institute — Troy, NY
Ph.D., Computer Science — *Nov. 2020*

The College of New Jersey — Ewing, NJ
Bachelor of Science, Computer Science — *May. 2013*

OPEN SOURCE PROJECTS

- **phinx** (https://github.com/cakephp/phinx): Framework agnostic database migration software written in PHP.
- **Submitty** (https://submitty.org): Open-source homework server for Computer Science. Written using mix of PHP, Python, Bash, and C++.
- **asciidoc-py** (https://github.com/asciidoc-py): Python processor the AsciiDoc markup language.