

PATRICK F. GALLAGHER

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SKILLS

- **PROFICIENT:** JavaScript, Node.js, React, Redux, Express.js, React Router, Git/Github, Sequelize, PostgreSQL, Elasticsearch (Reactivsearch), TDD (Mocha, Chai, Jasmine, and Enzyme), HTML, CSS, Heroku, Travis CI, and React/CSS UI Frameworks.
- **KNOWLEDGEABLE:** Regular Expressions, Socket.io, OAuth (Passport), Redux-Persist, Webpack, Lodash, Cytoscape.js, and Turf.js.
- **FAMILIAR:** Electron, Babel, AutoHotKey, and QGIS.

DEVELOPMENT PROJECTS

COSMØNOTE : DEVELOPER — ‘CAPSTONE PROJECT’

Deployed : [Github](#)

- Cosmønote is a notetaking app made with developers in mind; some of its unique features include its ability to execute code using Runkit, near-real-time markdown rendering, and an innovative, non-hierarchical ‘web’ visualization. It was developed in **under three weeks**.
- Solely implemented search functionality, including initializing and managing the Elasticsearch server, creating database hooks to index/update the search server after any CRUD operations, setting up a proxy in Express.js to solve Cross-Origin Resource Sharing errors, and wiring up the search server to Reactivesearch, a React UI framework offering search bars with suggestions and result pages with intelligent highlighting.
- Created a feature that extracts links to other notes in markdown using Regular Expressions; using the links, the database automatically creates, updates, or deletes associations between notes for web visualization and preview purposes.
- Within the markdown rendering framework, created a custom parser that utilizes the aforementioned Regular Expressions to render a live preview when the cursor hovers over links to other notes in the app.
- Took charge of deployment, set up the custom domain, and debugged related SSL issues.
- Managed Github project board and kept issues and tasks up to date.

EIGHT BLOCKS TO THE MILE (EBTTM) : SOLE DEVELOPER — ‘STACKATHON PROJECT’

Deployed : [Github](#)

- EBTTM is a mapping app that makes it easier to find your way around Chicago; it was completed during a **three-day hackathon**.
- After testing multiple mapping visualization frameworks and quickly learning to use GIS software, found, processed, and curated **20+** different geographic layers from the City of Chicago’s data portal; the final implementation smoothly retrieves the relatively large GeoJSON objects from a database and stores the toggled layers in a Redux store for easy access.
- Upon experiencing inconsistencies with determining the center of complex geographical polygons, located and implemented a powerful geospatial library, Turf.js, which has a sophisticated centroid function and also improved the map marker clustering’s performance.

PRISTINE PENCILLORUM : DEVELOPER — ‘GRACE SHOPPER PROJECT’

Deployed : [Github](#)

- Pristine Pencillorum is a full-featured e-commerce site offering luxury pencils; it was built in **under two weeks**.
- Served as integration lead for the shopping cart and oversaw back-end development; utilized Redux-Persist and Sequelize to handle numerous permutations of potential cart conflicts (e.g. if a logged-out user has both a local cart and a saved cart in the database, upon login, the carts are combined).
- Implemented the checkout process using Stripe and ensured both local carts and database carts are properly updated after a purchase.
- Performed web scraping to source **1000+** product titles, descriptions, prices, and images so the site could be properly stress-tested.

EDUCATION

FULLSTACK ACADEMY : CHICAGO, IL : FULL-TIME IMMERSIVE PROGRAM IN SOFTWARE ENGINEERING

Apr. 2019

UNIVERSITY OF CHICAGO : CHICAGO, IL : M.A.

Aug. 2017

▪ Cumulative GPA: **3.73**

▪ Recipient of: Social Science Tuition Scholarship

ILLINOIS STATE UNIVERSITY : NORMAL, IL : B.A. (DOUBLE MAJOR — SUMMA CUM LAUDE)

Dec. 2015

▪ Cumulative GPA: **3.91**

▪ Recipient of: Judge John P. Freese & Lucile ‘Lucy’ Tasher Scholarships

▪ Dean’s List Scholar

WORK EXPERIENCE

KIRKLAND & ELLIS LLP : CHICAGO, IL : CORPORATE PARALEGAL

Jan. 2018–Oct. 2018

- Supported attorneys conducting private equity fundraising for funds ranging from **\$100M to \$10B**.
- Independently drafted a **25-page** gap analysis / project proposal regarding the practice area’s approach to technology, with particular focus given to its reliance on an antiquated database. Met with numerous stakeholders in IT, project management, and firm management to discuss implementation after disseminating the report.
- Spearheaded multiple projects to significantly cut down the volume of administrative backup using automation. (E.g. personal efforts to automate document distribution using AutoHotKey and affordable software offerings cut a process that normally took **8-9** combined workhours down by **more than half**.)