

# PATRICK F. GALLAGHER

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## SKILLS

- **PROFICIENT:** JavaScript, Node.js, React, Redux, Express.js, React Router, Git/Github, Sequelize, PostgreSQL, Elasticsearch (Reactivesearch), TDD (Mocha, Chai, Jasmine, and Enzyme), HTML, CSS, Heroku, Travis CI, and React/CSS UI Frameworks (especially Semantic UI and Bootstrap)
- **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

[Deployed](#) • [Github](#)

*Developer — ‘Capstone Project’*

- Cosmønote is a notetaking app made specifically with developers in mind; some of its unique features include its ability to execute code snippets 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 fixed related SSL issues. Also, managed Github project board and kept issues and tasks up to date.

### EIGHT BLOCKS TO THE MILE (EBTTM)

[Deployed](#) • [Github](#)

*Sole Developer — ‘Stackathon Project’*

- EBTTM is a Chicago-specific map visualization app that makes it easier to find your way around the city; it was completed over the course of a **three-day hackathon**.
- Researched multiple mapping visualization frameworks; decided on using Leaflet (and its associated React wrapper, React-Leaflet) due to its light weight and the large number of useful and extensible plugins available for it.
- After 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 more sophisticated centroid function. Using Turf.js in this manner also improved the appearance and performance of map marker clustering.

### PRISTINE PENCILLORUM

[Deployed](#) • [Github](#)

*Developer — ‘Grace Shopper Project’*

- Pristine Pencilorum 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 most back-end development; utilized Redux-Persist and Sequelize to logically handle numerous permutations of potential cart conflicts (e.g. if a logged-out user has both a local storage cart and a saved cart in the database, upon login, the carts are combined).
- Brainstormed and subsequently put the checkout process into place using Stripe’s API, ensuring both local carts and database carts are properly updated after a purchase.
- Used a web scraper to source **1000+** product titles, descriptions, prices, and images so the site could be properly stress-tested.

## WORK EXPERIENCE

### KIRKLAND & ELLIS LLP

*Junior Corporate Paralegal — Private Equity*

*Chicago, IL  
Jan. 2018–Oct. 2018*

- Supported attorneys conducting private equity fundraising for funds ranging from **\$100M to \$10B**, by managing projects and completing most administrative tasks.
- 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**.)

## EDUCATION

### FULLSTACK ACADEMY

*Full-Time Immersive Program in Software Engineering*

*Chicago, IL  
Apr. 2019*

- Fullstack Academy is a rigorous software development school teaching professional-level practices in front-and-back-end web development.
- Its curriculum is a pragmatic mix of computer science theory, algorithms and data structures, and practical usage of industry-standard tools and libraries.

### UNIVERSITY OF CHICAGO

*Master of Arts in Social Science (Focus: American Legal/Political History)*

*Chicago, IL  
Aug. 2017*

- Cumulative GPA: **3.73**; Recipient of: Social Science Tuition Scholarship
- Thesis: **The Conservative Incubator of Originalism: The Reagan Department of Justice**

### ILLINOIS STATE UNIVERSITY

*Bachelor of Arts in History & Politics/Government (Summa Cum Laude)*

*Normal, IL  
Dec. 2015*

- Cumulative GPA: **3.91**; Politics/Government GPA: **4.0**; History GPA: **3.92**; Dean’s List Scholar; Recipient of Judge John P. Freese & Lucile ‘Lucy’ Tasher Scholarships

## CAMPUS INVOLVEMENT

### ILLINOIS STATE UNIVERSITY

*Mortar Board (National Senior Honor and Service Society) — Selections Chairman*

*Normal, IL*

*Pi Sigma Alpha (National Political Science Honor Society)*

*2014-2015*

*Phi Alpha Theta (National History Honor Society)*

*2015*

*Tau Kappa Epsilon (Social Fraternity)*

*2014-2015*

*2012-2015*

## PERSONAL ACHIEVEMENTS

### BOY SCOUTS OF AMERICA

- Eagle Scout with 35 merit badges