

# BRANDON YEE

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## TECHNICAL SKILLS

- Proficient: Javascript, Java, Node.js, Express, React, Redux, Postgres, SQL, Git, HTML, CSS, JQuery
- Familiar: Mocha, Chai, Solr, C++, Neo4J, Amazon AWS, Docker, MongoDB, Material UI, Angular, Apache Webserver, Tomcat

## PROJECTS

**Monsteroids** - [github.com/JWKnapp/gameJam](https://github.com/JWKnapp/gameJam)

- Spooky-themed take on the classic game Asteroids. Built during a 24h game hackathon with Phaser, Javascript. Two-person team.

**Hero Help!** - [github.com/brandonjyee/HeroHelp](https://github.com/brandonjyee/HeroHelp) | [youtube.com/watch?v=N5SJ75VoWKA](https://youtube.com/watch?v=N5SJ75VoWKA)

- Modern day Bat-Signal for mobile phones. Real-time Incident Management System that allows citizens to send a distress signal which will be dispatched to the nearest available superhero who will then go to the location and resolve the incident. Two separate mobile apps (citizen and hero) were built with React Native, Google Maps, and websockets for push notifications; simulator and admin panel built with React, Redux, Node, and Postgres

**Multiplayer One Night Werewolf** - [github.com/brandonjyee/UltWolf](https://github.com/brandonjyee/UltWolf) | [youtube.com/watch?v=YDxcqCtv-5Y](https://youtube.com/watch?v=YDxcqCtv-5Y)

- Multiplayer websockets game based on the popular deception game: One Night Ultimate Werewolf. Players can see and hear one another via webcams as they try to deceive each other. Sole developer. Built with websockets, WebRTC, React, Redux, Node

**The Quartermaster** - [new-quartermaster.herokuapp.com](https://new-quartermaster.herokuapp.com) | [github.com/SeniorProjectWorkGroup/graceShopper](https://github.com/SeniorProjectWorkGroup/graceShopper)

- Ecommerce site for larping equipment with user authentication, category filtering, pagination, shopping cart, and Stripe integration. Built with React and Redux for the frontend and a REST api backend
- Built a custom scraper to scrape a thousand larping products to populate the store. [github.com/brandonjyee/scrape-larp](https://github.com/brandonjyee/scrape-larp)

**Fiction Writer's Toolbox** - [java.brandonyee.com/booksearch-app/](https://java.brandonyee.com/booksearch-app/) | [github.com/brandonjyee/booksearch](https://github.com/brandonjyee/booksearch)

- Tools to help authors write bestselling books. The frontend uses JSP while the backend uses Enterprise Java and Solr for text search. Sole developer.

**Augmented Reality 3D Sketching** - [youtube.com/watch?v=eezvfk0auUU](https://youtube.com/watch?v=eezvfk0auUU) | [Publication](#)

- Created an augmented reality sketching system that allows a user to draw in 3D space using an optically tracked wand while wearing a head-mounted display. Webcams mounted on the front of the headset provide the visual feed of the real world with user-generated 3D paint strokes overlaid on top. The drawing could be made into a 3D printed object.
- Yee B., Ning Y., Lipson H., (2009) "Augmented Reality In-Situ 3D Sketching of Physical Objects," In Hammond T., Eoff B., Corey P. (Eds.) Proceedings of Intelligent User Interfaces (IUI'09) Workshop on Sketch Recognition, Sanibel Island, FL, Feb 2009.

## WORK EXPERIENCE:

**Fullstack Academy, Chicago IL - Teaching Fellow (8/2018 - Present)**

- Taught algorithms and data structures to 70+ students, managed student team projects, answered questions during workshops and office hours, and conducted admissions interviews for prospective students.
- Voluntarily wrote a one hour workshop ("Learning the Phaser Game Engine") that will be integrated into the core curriculum

**Blackbird Publishing, Chicago IL ([www.blackbirdpublishing.org](http://www.blackbirdpublishing.org)) - Founder (2/2012 - Present)**

Wrote, published, and marketed romance novels to tap into an unmet voracious demand for romantic literature after the worldwide success of the Fifty Shades of Grey trilogy.

- 1+ million copies sold globally; published three USA Today Bestsellers.
- Developed internal metrics tool to scrape and aggregate data from self-publishing platforms (Amazon, Nook, Kobo), social media, and email lists. Saved an hour each day from having to manually input metrics into Excel. Built with Java and HtmlUnit.
- Developed a writing assistance tool that performed textual analysis on bestselling books and also offered writing suggestions. Built with Java, Solr, JBoss, JSP. [java.brandonyee.com/booksearch-app/](https://java.brandonyee.com/booksearch-app/)

**Raytheon, State College, PA - Software Engineer; SSBI (1/2009 - 2/2012)**

- Developed a new data ingestion system using Enterprise Java and Solr. Received spot award as recognition for key contributions in integrating Solr with the system.
- Developed new functionality for an internal Java EE project management tool. Gathered requirements from users and was able to perform direct user acceptance testing.
- Voluntarily organized and ran study groups on Java concurrency to develop personal understanding and assist coworkers in their own development.

## EDUCATION:

- Fullstack Academy (Web Development Immersive), Chicago IL. (6/2018 - 8/2018)
- Cornell University, Ithaca, NY. Masters of Engineering in Computer Science (12/2008).
- Cornell University, Ithaca, NY. Bachelor of Computer Science (5/2008).