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EDUCATION

Hunter College

Bachelor of Arts in Computer Science, Minor in Mathematics

New York, NY

EXPERIENCE

Bloom Habits | bloomhabits.com

Apr 2024 – Present

Full-stack Software Engineer | Founder

New York, NY

- Independently developed an **open-source, not-for-profit productivity platform** designed to help individuals with ADHD structure their lives through goal and habit setting, journaling, and AI assisted emotional analysis.
- Gained **over 100 users** within the first year of launch, driven entirely by organic word-of-mouth and community sharing.
- Developed an AI Assistant using **RAG (Retrieval-Augmented Generation) architecture** for context-aware interaction with user data.
- Integrated **Machine Learning for emotion analysis** in journal entries using the IBM API, giving users insight into their emotional health.
- Designed a **unique gamified progress visualization** system using P5.js, where users "grow" trees based on completed goals and habits—with recursively generated real-time grown trees.

The Horizon Condominium

Nov 2020 – Present

Luxury Porter | Package Manager

New York, NY

- Took initiative to personally design and develop a **custom delivery and package management application** for a high-traffic 430-unit residential building, replacing an inefficient legacy system that users found unusable.
- Reduced package lookup times from $O(N)$ to $O(1)$** by implementing a shelf-based package indexing system, **saving up to several minutes per physical search** and significantly improving operational efficiency.
- Increased user adoption** among non-technical, elderly staff by designing a highly simplified, mobile-responsive UI/UX, enabling seamless use in a fast-paced environment.
- Built full CRUD functionality for package tracking, with role-based account types for Managers, Workers and building Residents
- Led the end-to-end development**, from problem identification and user research to frontend + backend development, database design, and deployment.

PROJECTS

Eclectic Anecdotes | shhmon.blog | [github presentation](#)

React.JS - Node.JS - MongoDB - Firebase - Express.JS - TinyMCE - Prism.js - JWT - Bcrypt - OAuth 2.0 - Tailwind

- Developed a custom MERN-stack blog platform, featuring integration of a 3rd party WYSIWYG editor, real-time post preview, image upload, full user system allowing comments and likes and a feature-rich admin dashboard for management.
- Extended TinyMCE capabilities for image insertion, custom code snippets, and integrated Prism.js for syntax highlighting in technical posts.

FoodJunkies | [github presentation](#)

Java - PHP - MySQL - AWS: RDS, EC2 - Yelp API - AndroidStudio

- Android app for quick preference-based food and restaurant recommendations, created as a group capstone project
- Led backend and database architecture design for a 5-person team, creating relational schemas, ER diagrams and developed a RESTful API in PHP, supporting full CRUD operations
- Deployed and configured a MySQL database on Amazon RDS, encapsulating access through an Amazon EC2 server.

TECHNICAL SKILLS

Languages & Frameworks: JavaScript, Python, SQL, React.js, Redux, Node.js, P5.js Express.js, HTML5, CSS3, Tailwind

Databases: MongoDB, Firebase, MySQL, Amazon Web Services (EC2, RDS)

Tools & Concepts: OAuth 2.0, JWT, Bcrypt, IBM Machine Learning API, OpenAI API, Postman, Insomnia, Git, Android Studio, AI Integration, Agile