# ANDREW THURMAN | SOFTWARE ENGINEER

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JavaScript, React.js, Redux, Python, HTML5, CSS3, SQL, postgreSQL, SQLAlchemy, Express, Flask, Docker
SalesForce, Heroku, ActiveCampaign, Amazon S3, Twilio, Google Apps Scripting
Business Management, Team Development, Classroom Teaching, Continued Education

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## TECHNICAL EXPERIENCE

**CottageCare** – *Full-Stack Software Engineer - 2021 - current*
- Design efficient relational database for storing all call center data using **Python, SQLAlchemy, Alembic**
- Create robust **REST API** to securely serve business data for all front-end tooling and business analytics
- Utilize **Flask-Login, CSRF Cookie, PyJWT,** as well as **Werkzeug** hashed passwords to authenticate users & serve information safely and securely
- Design & implement extensive custom validations, leveraging **WTForms, Flask-Login,** to assure proper authorization & data uniformity
- Integrate **ActiveCampaign** API to automate client information input, and marketing pipeline selection, automating most clerical work and increasing reps' productivity.
- Implement & maintain the company's intricate pricing model allowing reps to **accurately quote millions of possible service/tax/fee combinations, across multiple states and countries**.
- Design **auto-logout feature**, utilizing **asynchronous functions** and **local storage** to track user idle time, keeping representative accounts secure if they leave the workstation.
- Utilize **setTimeout** and "loaded" **Redux** state attribute to prevent excessive or duplicated network calls, increasing overall efficiency
- Create a set of **input masking** functions to automatically format user entries, improving user experience throughout the application
- Integrate **EmailJS** allowing reps to send formatted emails, including customer personal info and notes, service plans & order invoices to the proper service center with single button click.
- Implemented **Kendo React PDF generator** & the ability to save PDF copies of any order invoice with single button click.
- Meet with company leadership / owners to assess business needs, and strategize solutions
- Create / present value propositions & road map for new feature development
- Design, create, deploy & maintain internal tools / microservices to support call center
- Integrate external APIs, company services and marketing platforms to support leadership

**App Academy** – *Cohort Leader for industry-leading Web Dev program - 2021-2023*
- Manage cohorts of students ranging in size from 90 to 150 through entire bootcamp, maintaining a graduation rate of ~80%
- Review student reports & code daily to assess strengths/weaknesses, and create plan for equitable class instruction
- Tailor pair-coding and group experiences to maximize student productivity & knowledge reinforcement
- Assist instructional & curriculum staff in building a strong foundation of knowledge in web development principles through 1-on-1 instruction, daily class lectures and additionally created code-along projects

# PROJECTS

**LittleJohn** – *A pared-down clone of RobinHood.com, a popular stock trading website.*

live site | github

- Established user verifications with **CSRF Cookies** and employed **Werkzeug hashing** to prevent storage of plain text passwords.
- Utilized **TradingView/DevExtreme** charting packages to implement multiple **data visualization**s, allowing users to see portfolio distribution, current and historical market values at a glance.
- Implemented **websocket** connection to **Finnhub.com** and **AlphaVantage.com** to track trades and market movement, allowing stock **charts and graphs to update in real time**.
- Designed and created a relational database, using **SQLite3**, **Flask SQLAlchemy**, and **Alembic** for storing user data including multiple portfolios and trades.
- Designed robust **error handling** measures on the front-end with custom functions, and on the backend using **Flask Login**, **WTForms** and **custom validators**.

**LFG app** - *Looking for Groups is a pseudo clone of EventBrite focused on online social gaming events.*

live site | github

- Utilized **CSRF Cookie** validations as well as **Werkzeug** hashed passwords allowing us to authenticate users & store users' information safely and securely.
- Utilized **WidgetBot** library with logic that assigns a user-specified **Discord** server for each event, to enable live social interaction on every event page.
- Built **React** components with conditional rendering logic, delivering a unique **UI/UX** for unauthenticated vs authenticated users & event hosts.
- Constructed relational database using **Postgres, SQLAlchemy** and **Alembic** to store event data, allowing users to filter & search events by tag, category, or title.
- Connected **Flask** back end to **AWS s3 bucket**, giving users the ability to upload product images, and profile pictures while maintaining network speed.

**GoodGames** – *In the nature of GoodReads, this website allows users to track or review video games.*

live site | github

- Leveraged **Pug** templating and mixins to create multiple reusable **HTML** components, keeping code **DRY**.
- Utilized **AJAX** fetches to dynamically adjust user collections and preferences without page refresh, reducing network traffic and improving user experience.
- Designed and deployed a server & relational database using **Express / Sequelize**, providing users all **CRUD** functionality for their collections, comments, user settings, and personal information.

# MANAGEMENT EXPERIENCE

**General Manager** | *Vintage Stock, Inc.*                                    March 2012 - Sept 2020

- Cultivated team success through personalized 1-on-1 coaching aligned with company culture and needs resulting in accomplishments, such as: the generation **$10.5m** in revenue and **$4m** in profit during **8** yr tenure, reduction of payroll cost from **11.5%** to **< 9%**, and internal promotions of team members.
- Provided owners with succinct quarterly reports providing insights and actionable feedback on store financials, product trends, and opportunities for improvement.
- Created guidelines and training documentation for a new service to be offered company-wide, which went on to generate **$81k** sales & **~$60k** profits within the first year.

# EDUCATION

**App Academy** | *Full Stack Software Engineering*                          Graduated Spring 2021

- Immersive software development program including coursework focusing on SDLC Best Practices, and Agile Methodologies, while students accrue 600+ hours of pair coding experience over an intensive 6-month curriculum.