

# ANDREW THURMAN | SOFTWARE ENGINEER

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[Portfolio](#)

[LinkedIn](#)

[GitHub](#)

Tech: Node.js, Next.js, JavaScript, TypeScript, React.js, Redux, HTML5, CSS, Tailwind, SQL, PostgreSQL, Express, Sequelize, Python, Flask, SQLAlchemy, Docker, Salesforce, Heroku, AWS, Twilio, Resend, Render, Vercel,  
Other skills: Business Management, Team Development, Training & Instruction, Continued Education

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## TECHNICAL EXPERIENCE

### **Freelance Web Developer – Full-Stack Engineer - 2023 - Present**

- Collaborate with clients to define project requirements and objectives, ensuring a clear scope and vision.
- Conduct comprehensive project planning, including outlining specifications, milestones, and timelines.
- Design responsive & appealing interfaces(UI) and user experiences(UX) using many web technologies.
- Develop custom web applications, leveraging modern frameworks like React, Redux, Next.js, TailwindCSS and more.
- Implement robust back-end solutions, integrating databases(SQL or NoSQL) and RESTful APIs to ensure seamless data handling.
- Deploy projects to web servers or cloud platforms(AWS, Heroku) and configure domain and hosting settings.
- Create thorough documentation and provide clients with user guides and training for seamless project maintenance.
- Maintain open communication with clients to accommodate changes, updates, and ongoing support.

### **CottageCare – Lead Software Engineer - 2021 - 2023 (Contract)**

- Led Full Software Development Life Cycle (SDLC): Single-handedly managed end-to-end development of a call center automation application, from conception to deployment.
- Automated Clerical Tasks: Developed an application that reduced the time spent on administrative tasks, saving an average of 5 minutes per call.
- Boosted Call Center Productivity: Increased total calls taken from 250 to 320 per week, enhancing call center efficiency.
- Enhanced Sales Performance: Improved successful order rates, resulting in an increase from 65 to 77 orders per week.
- Achieved Significant Payroll Savings: Through automation and efficiency improvements, achieved weekly payroll savings of approximately \$495.83.
- Time Efficiency Gains: Saved a total of 1750 minutes per week across 5 call center representatives, allowing more focus on sales and customer engagement.

### **App Academy – Cohort Leader - 2021-2023**

- Managed cohorts of students ranging in size from 90 to 150 through 20 weeks of coding instruction, maintaining a graduation rate of 83%
- 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 retention
- 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

## MANAGEMENT EXPERIENCE

**General Manager** | *Vintage Stock, Inc.*

March 2012 - Sept 2020

- Cultivated team success through personalized 1-on-1 coaching aligned with company culture 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%.
- Hired and trained 3 employees that would be promoted to general manager of their own, different location.
- 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.

## PROJECTS

**Jake Hembree Design** - *Portfolio site for graphic artist / designer*

[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.

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

[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 visualizations, 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.*

[github](#)

- Utilized CSRF Cookie validations as well as Werkzeug hashed passwords allowing safe and secure auth.
- Integrated WidgetBot to assign a user-specified Discord server for each event, enabling live social interaction on every event page.
- Developed 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.

## 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.