# Andrew Feng

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## PROFESSIONAL SUMMARY

Results-driven and adaptable professional transitioning from a biotech background to a software engineering career. A dedicated and enthusiastic learner with a passion for finding innovative solutions that optimize efficiency and save valuable time. Combining a strong foundation in biotech research and creative problem-solving skills, I bring a unique perspective to development projects and am committed to continuous learning.

## TECHNICAL SKILLS

**Languages** | • JavaScript • HTML5 • CSS3
**Technologies** | • React • Node.js • Express • PostgreSQL • MongoDB • MySQL • MaterialUI • Sass • jQuery
**Developer Tools** | • AWS • Jest • Mocha • Chai • K6 • Jira • Webpack • Vite • Babel • Postman

## SOFTWARE ENGINEERING EXPERIENCE

### Hack Reactor                                                                                          *2022-2023*

*Cap's Closet* – Front End Engineer – *Fully interactive product detail page for ecommerce clothing application*
- Implemented asynchronous loading of prioritized components to lower time to interactive from **2.5s** to **0.8s**
- Established a tracking feature by taking advantage of **JavaScript** event bubbling and propagation to allow admins to track information regarding user interaction
- Developed image carousel with **React** and **Sass** to allow users to add and view photos in product reviews
- Built custom ratings and reviews section and integrated API routes to allow users to add, filter and search through product review postings

*Atelier Products API* – Back End Engineer – *Redesigned and scaled back-end for product details in an ecommerce application*
- Programmed an **ETL** process using **Node.js** to transfer the full application data set into a relational database designed with **PostgreSQL** and improved server response speed from **~150ms** to **~20ms**
- Conducted stress-testing of API routes using **k6** and optimized **SQL** queries using indexing resulting in an average response time of **~1 ms**
- Deployed application to **AWS** as POC and leveraged **NGINX** to scale and sustain server load capacities of **over 1000 RPS**

*Petly* – Full Stack Software Engineer – *Web application allowing users to discover pets located at nearby animal shelters*
- Designed front-end with **React** and integrated **React-Router** to allow for a multi-page browsing experience
- Utilized **PetfinderAPI** to return live data on pets available for adoption based on location input using RESTful API routes
- Implemented authentication and authorization with **PassportJS**, leveraging **bcrypt** to persist user information securely in a **MongoDB** back-end

*Shredded* – Full Stack Software Engineer – *Personalized fitness tracking application allowing users to track their fitness journey*
- Architected workout display dashboard applying **MaterialUI** components to display daily workout and meal information
- Consumed external APIs via a **Node.js** back-end with RESTful routes to obtain live information pertaining to workouts
- Implemented back-end with **PostgreSQL** to allow for efficient access and storage of user information, using sessions to persist user login status when browsing

## PROFESSIONAL EXPERIENCE

### Biotium – Production Technician                                                                       *2021-2022*
- Manufactured fluorescent reagents/dyes, solutions and buffers for life science research in an **ISO 9001:2015** certified laboratory
- Utilized **SAGE 100 ERP** software to analyze sales order history via python scripts to streamline production output and improved back-order response by **50%**
- Collaborated with directors to successfully implement **Paradigm 3** software to manage confidential SOPs and decreased production errors by **20%**

## EDUCATION

**Hack Reactor** | Advanced Software Engineering Immersive Program                                        *2023*
**Stony Brook University** | B.S. Biology (Neuroscience)                                                  *2016*