

# Andrew Feng

(347) 279-6772 | andrew.feng.swe@gmail.com | linkedin.com/in/-andrew-feng | bxandrew.github.io

## TECHNICAL SKILLS

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**Front-End** | JavaScript, React, Next.js, HTML5, CSS3, Sass, Tailwind, MaterialUI, jQuery, Axios

**Back-End** | Node.js, Express, PostgreSQL, MongoDB, MySQL

**Testing/Deployment** | Jest, Mocha, Chai, K6, AWS

**Developer Tools** | Git, GitHub, Jira, Webpack, Vite, Babel, Postman

## SOFTWARE ENGINEERING APPLICATIONS

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**Cap's Closet** – Product detail page for ecommerce application

2023

**Front End Engineer** | JavaScript, React, Sass, Node.js, Express, Axios

- Implemented asynchronous loading of prioritized components to lower time to interactive from 2.5s to 0.8s
- Leveraged React to develop an interactive ratings and reviews list that allowed users to add, filter and search through reviews by querying RESTful API routes
- Built a custom tracking feature utilizing JavaScript event bubbling and propagation to allow admins to track information regarding user interaction

**Back End Engineer** | JavaScript, Node.js, Express, PostgreSQL, AWS, K6, NGINX

- Performed an ETL process utilizing 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 and leveraged NGINX to scale and sustain a server load capacity of over 1000 RPS

**Petly** – Full stack web application allowing users to discover pets located at nearby animal shelters

2023

**Full Stack Software Engineer** | JavaScript, React, Sass, Node.js, Express, MongoDB

- Built front-end with React and integrated React-Router to allow for multi-page browsing
- Utilized PetfinderAPI to return live data on pets available for adoption based on location input using RESTful routes
- Implemented authentication and authorization with PassportJS, leveraging bcrypt to persist user information securely in a MongoDB back-end

**Shredded** – Full stack personalized fitness tracking application

2023

**Full Stack Software Engineer** | JavaScript, React, MaterialUI, Express, Node, PostgreSQL

- Architected workout display dashboard using React to allow users to add and edit daily workout 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

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**Biotium** | Production Technician I

2021-2022

- Manufactured and packaged fluorescent reagents/dyes, solutions and buffers for life science research in an ISO 9001:2015 certified laboratory
- Leveraged SAGE 100 ERP software to analyze sales order history via 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%

**NY Spine and Rehab Medicine** | Physical Therapy Aide

2017-2019

- Assisted in the execution of Physical Therapy protocols established by the Physical Therapist to help patients recover from chronic pain

## EDUCATION

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**Hack Reactor** | Advanced Software Engineering Immersive Program

2023

**Stony Brook University** | B.S. Biology (Neuroscience)

2016