Dustin Chang

+1 (619) 313-7943 | dfchang@ucsd.edu | github.com/dfchang149 | linkedin.com/in/dustin-fu-chang

OVERVIEW

Aspiring Full-Stack Web Engineer seeking entry-level Full-Stack roles with hands-on experience building, deploying, and scaling React/Next.js applications backed by Node.js and MongoDB. Skilled at designing API routes, implementing responsive UIs with Tailwind CSS, and automating CI/CD pipelines on Vercel.

EDUCATION

University of California San Diego, B.S in Computer Science   *Sept 2021 - PRESENT*
Relevant Coursework: Data Structures, Algorithms, Operating Systems, Software Engineering, Agile Development, Web Security

TECHNICAL SKILLS

Programming Languages: JavaScript, HTML, CSS, Java, C#, C/C++, Python, Bash, SQL, Lua
Front-End: React, Next.js, Tailwind CSS, Responsive Design, Client-side storage (LocalStorage)
Back-End: Node.js, Next.js API Routes (Serverless Functions), MongoDB, RESTful APIs
DevOps & Cloud: Vercel (CI/CD & Preview Deployments), Git/GitHub, Environment-variable Management
Testing & Tools: VS Code, Figma, Chrome DevTools, JUnit, npm, pnpm

PROJECTS AND EXPERIENCES

Flowers-For-You ↗ | React · Next.js · Tailwind CSS · MongoDB · Vercel · JavaScript   *Sept 2024 - July 2025*
- **Built** a full-stack Next.js application that lets users compose and send digital flowers via unique, one-time-use links.
- **Designed** API routes to generate links and temporarily store flower data in MongoDB, then automatically delete records upon retrieval to enforce one-time access.
- **Developed** a responsive React/Tailwind UI for both sending and receiving flowers, persisting delivered bouquets in localStorage.
- **Deployed** to Vercel with GitHub-triggered CI/CD; secured environment variables (Mongo URI).

Portfolio Website ↗ | JavaScript · HTML · CSS   *July 2023 - May 2025*
- **Developed** a multi-page static site with semantic HTML5 structure (About, Resume, Projects), featuring a responsive nav bar.
- **Implemented** smooth-scroll navigation and section-reveal animations on scroll using custom CSS classes to enliven content.
- **Built** a "back to top" button with fade-in/out effects improving usability on long-scrolling layouts.
- **Created** dark/light theme toggling with persisting user choice in localStorage for personalized experience.

PantryPal | Java · JavaFx · MongoDB · OpenAI   *Nov 2023 - Dec 2023*
- **Collaborated** in a four-member Agile team, running two-week sprints with daily stand-ups and demo reviews for new features.
- **Integrated** the OpenAI GPT-3.5 API to generate customized recipe suggestions based on current pantry contents.
- **Architected** the app using an MVC structure: JavaFX handled the UI layer, a service layer managed API integrations, and MongoDB persisted pantry inventory and user preferences.
- **Enhanced** UX with JavaFX components: a searchable pantry list, dynamic recipe cards highlighting available ingredients, and step-by-step cooking instructions—styled for consistency with CSS.
- **Wrote** JUnit tests for core pantry management logic and mocked API interactions, achieving over 80% code coverage and reducing bug rates in subsequent feature releases.

Fluent Tic-Tac-Toe ↗ | C# · XAML · WinUI · Visual Studio   *Sept 2022 - July 2023*
- **Published** on Microsoft Store, achieving **1,250+** acquisitions from **9,600+** page views, a 5.63% install conversion rate, and sustaining **~16 monthly active users.**
- **Styled** the UI to match the WinUI Fluent Design System, incorporating acrylic materials, reveal highlight effects, and smooth transitions to deliver a polished Windows 11 experience.