Bronson Avila
Software Engineer

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808.218.0004

SUMMARY:

A software engineer with 7 years of experience specializing in the React (16-19) and JavaScript/TypeScript ecosystems, with full-stack capabilities. A former attorney who brings a unique analytical perspective to building accessible and performant web applications with AI-powered tools. Passionate about solving complex challenges through clean and efficient code.

HIGHLIGHTS:

- 7 years of React (16-19) experience, including modernizing front-end codebases and leading migrations.
- Full-stack capable in deploying infrastructure, writing Node.js tools, and working with SQL and NoSQL databases.
- Ships features with direct business impact, contributing to a company acquisition and securing major contracts.
- Experienced in building AI-powered applications and automation agents from concept to deployment.
- Leads by providing guidance and setting standards for junior engineers, and empowering non-technical partners.

SITES & PROFILES:

- **Developer Portfolio:** bronsonavila.dev
- **Commercial Consultancy:** bronsonavila.com
- **LinkedIn:** linkedin.com/in/bronsonavila
- **GitHub:** github.com/bronsonavila

SKILLS:

Front-End: React (16-19), TypeScript, JavaScript, Next.js 15, Material UI (MUI), HTML, CSS, SCSS, Tailwind CSS, Radix UI, React Native, AngularJS, Framer Motion, Highcharts, SpreadJS, StimulusJS, MobX, Redux
Back-End: Node.js, Express, Python, Django, Wagtail, GraphQL, Hugo, WordPress, PHP
Databases: PostgreSQL, MongoDB
Platforms & Services: AWS, Vercel, Netlify, Supabase, Contentful, Okta, Sentry, Snyk, Google Apps Script, Mapbox
AI: Google Gemini API, Chrome DevTools MCP
CI/CD: GitHub Actions, Azure DevOps
Testing : Cypress, Playwright, Vitest
Tooling: Git, Cursor, Figma, Storybook, Vite, Rsbuild, Webpack, Puppeteer

PROFESSIONAL EXPERIENCE:

Klarity   **Remote**
Senior Software Engineer   **March 2024 – October 2025**

- Improved the front-end of Klarity's contract review platform by optimizing GraphQL queries and implementing caching strategies with the CacheStorage API to reduce network traffic from large, repetitive data fetches.
- Migrated a 5-year-old ejected Create React App codebase to the Webpack-compatible Rsbuild tool, reducing development server startup times from ~25 seconds to ~5 seconds, cutting production build times from ~8 minutes to ~2 minutes, and resolving dependency conflicts that unblocked a React 16 to 17 upgrade.
- Incorporated end-to-end testing with Playwright by configuring the test runner and writing foundational tests.
- Evaluated in-browser spreadsheet solutions and integrated SpreadJS to provide Excel-like functionality, which was a key requirement in securing a $400,000 contract.
- Renegotiated the annual SpreadJS licensing agreement to secure a 15% discount.
- Resolved security vulnerabilities reported by Snyk to ensure the company remained SOC 2 compliant.
- Authored a set of Cursor rules to enforce team-wide best practices for React 17, TypeScript, and Material UI in AI-assisted development.
- Configured and maintained front-end deployment pipelines using Azure DevOps and GitHub Actions.

- Deployed a personal development instance of the Python/Django back-end on an AWS EC2 instance and used MongoDB Atlas to directly modify data in QA for testing purposes.
- Performed technical screening interviews for prospective senior front-end engineer candidates.
- Onboarded a new engineer to the front-end codebase by providing technical guidance to get them up to speed with the team's best practices.
- Collaborated with product managers and designers in Figma to convert mockups into front-end features.

Software Engineer   **July 2022 – March 2024**

- Led Klarity's WCAG 2.0 accessibility audit, drafted a VPAT-based Accessibility Conformance Report, and resolved all outstanding issues to help secure a $600,000 contract.
- Led the front-end development and design of Klarity's LLM-integrated demo, and delivered the project on a 3-week deadline to coincide with GPT-4's public release.
- Led the integration of Sentry error monitoring to assist engineering and customer success teams in identifying and resolving client-side issues, including complex Okta authentication bugs.

Bbot   **Remote**

Software Engineer   **January 2021 – February 2022**

- Rebuilt the front-end of a customer-facing mobile ordering application by migrating the codebase from AngularJS to React 16 and using MobX for state management, which was part of a product overhaul leading to the company's acquisition by DoorDash.
- Developed features for a React Native terminal application operated by "back-of-house" restaurant staff.
- Improved engineering standards by writing end-to-end tests in Cypress and by drafting and editing technical documentation in Confluence.

The Atlantic   **Remote**

Developer   **November 2018 – January 2021**

- Collaborated with design and engineering members of The Atlantic's creative consulting agency (Atlantic 57) to create marketing campaigns for Accenture and PayPal with JavaScript and the Nunjucks templating engine.
- Developed responsive and accessible websites and web applications for noteworthy clients including:

  American Cancer Society
  - Led project management and front-end development for "The Cancer Atlas" by collaborating with client contacts and an external design agency to deliver the WordPress site under budget and on time for its unveiling at the 2019 World Cancer Leaders' Summit.
  - Developed and shared a reusable JavaScript configuration template to simplify the Highcharts API, which enabled the design team to create and style over 100 data visualizations independently.

  McChrystal Group
  - Led the front-end development of a single-page application by collaborating with a designer and project manager to convert Figma mockups into a component library with React 16 and Storybook, and supported back-end development by configuring content models in Django and the Wagtail CMS.
  - Deployed the Storybook component library as a client-facing visual guide for CMS editors, and configured AWS Lambda functions to allow integration with Lever and Mailchimp APIs.

  Open Government Partnership
  - Built a WordPress plugin and Google Apps Script to synchronize the website's PostgreSQL database with 450,000 cells of Google Sheets data to be used in populating front-end content, reducing a manual process that once consumed hours of daily effort to an automated task completed within 90 seconds.

  U.S. Chamber of Commerce
  - Performed quarterly updates and improvements on a microsite for the "Small Business Index" using the Hugo static site generator, Tailwind CSS, and StimulusJS for lightweight interactivity.

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PERSONAL PROJECTS:

Portfolio Website   **bronsonavila.dev**
- Built a portfolio website with Next.js 15 and Contentful CMS, which received 100% desktop Lighthouse scores across performance, accessibility, best practices, and SEO upon deployment to Vercel.
- Developed front-end components with Tailwind CSS and Radix UI, and created custom canvas animations.

Honolulu Arrest Logs   **honoluluarrestlogs.com**
- Built a Node.js automation pipeline that scrapes Honolulu Police Department arrest log PDFs, extracts unstructured data using the Google Gemini API, stores records in SQLite, and exports anonymized data to a Vercel Blob Storage.
- Developed the front-end with Next.js 16, React 19, and Material UI to enable sorting, filtering, and exporting data.

HI Lane AI   **hilane.ai**
- Built and deployed a Next.js 15 application on Vercel that fetches data from Hawaii's ArcGIS API to show real-time Hawaii road closures on a Mapbox map and provide AI-generated analyses of potential route impacts.
- Developed edge functions for processing raw GeoJSON data and for calling the Google Gemini API to receive structured output responses.

Hawaii Attorney Database   **hawaiiattorneydatabase.com**
- Built a Node.js tool with Puppeteer to scrape over 10,000 attorney profiles from publicly available data on a recurring basis, and used Google's Geocoding API to parse street addresses into a structured geographical format.
- Developed the front-end with React 18, TypeScript, and Vite, while using Material UI to create interactive charts and a data grid for searching and filtering.
- Configured a Netlify CI/CD pipeline with Vitest for automated testing and Sentry for error monitoring.

GPToDo   **gptodo.app**
- Built a React 19 and TypeScript application that converts photos of to-do lists into interactive checklists using the Google Gemini API, with a front-end built with Material UI and Framer Motion.
- Handled back-end image processing with a Supabase edge function and deployed the application on Netlify.

Chrome Gemini CLI   **github.com**
- Built a Node.js and TypeScript CLI tool that operates an AI agent using the Google Gemini API and Chrome DevTools MCP to interpret natural language commands and run automated tasks in the browser.

EDUCATION:

DevLeague   **Honolulu, HI**
Certificate of Completion, Full-Stack Web Development   **June 2018 – September 2018**
- Completed a 16-week program focusing on JavaScript, AngularJS, React 16, Node.js, Express, and PostgreSQL.

University of Hawaii at Manoa – William S. Richardson School of Law   **Honolulu, HI**
Juris Doctor   **September 2007 – May 2010**
- Honors: *Cum Laude*
- Member of the Hawaii Innocence Project.

Hawaii Pacific University   **Honolulu, HI**
Bachelor of Arts, Justice Administration   **September 2003 – September 2007**
- Honors: *Summa Cum Laude*