{ 'Cody Carlson': 'Software Engineer' }

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A solutions-oriented Software Engineer with a keen focus on quality and diverse experience in the use and development of frameworks and APIs. Adept in driving technical strategy in alignment with unique client needs while providing architectural foresight to ensure flexibility, scalability, and reusability through Software Design Patterns and SOLID Principles. Through opportunities of employment and entrepreneurship, I target innovative approaches toward improving our quality of life and state of technology.

Experience

Industries | Applications: E-Commerce, Consulting, Advertising, Government/Investigative, Financial, Healthcare, Airline/Travel, Rental, Discovery/Collaboration
Processes: Agile (Scrum, Lean), Kanban, Waterfall, Hybrid, None
Roles: Principal Front-End Architect, Principal Front-End Engineer, Consultant, Mentor, Lead Front-End Engineer, Front-End Architect, FullStack Engineer, FullStack Lead
Projects: Greenfield, Legacy, Reboot, R&D/POC, Mobile, Hybrid, Responsive, Infrastructure, Integrations, Migrations
Environments: SPA (Single-Page Applications), ESA (Enterprise Scale Applications), Framework, Widget, Edge
Testing: TDD/BDD, E2E, Functional, Regression, Smoke, System, A|B / Multivariate, Feature Flagging, Manual

Specializations

JavaScript | TypeScript | Node | Angular | CSS | MEAN/MERN | MVA | OOP | TCO | Design Patterns | SOLID | Coupling | Cohesion | Abstraction | Normalization | Triage | Mediation | Reuse/Entropy | Complexity | Networks | ChangeCost | OperationalCost | Event-Driven Architectures | Distributed User Interfaces & Application Cores | PWA

Syntax | Language

Backend: Node, Python, …more
Data-Transport: XML, JSON, AJAX
Machine: Binary, Hexadecimal, Octal, Base64
Front-End: JavaScript (ES5+), TypeScript, JSX, CSS(2+), (X)HTML(4+)

Front-End

CSS: Bootstrap, Foundation, Stylus, SCSS, LESS
Build | Process: Webpack, Babel, Gulp, Grunt, r.js
Templates | Mapping: Handlebars, Mustache, EJS, Jade/Pug, Dust, Rivets, Interpolation, Content-Projection
Development: Angular, Svelte(kit), React, AngularJS, AngularUI, AngularMaterial, Angular-CLI Angular-Lib, React, ReactNative, RxJS, NgRx, Flux/Redux, Ionic, Ionic2, jQueryJS, jQueryUI, jQueryMobile, EmberJS, KnockoutJS, BackboneJS, UnderscoreJS, LodashJS, MomentJS, Socket.io, WebRTC.io, wsJS, VueJS, VideoJS, KarmaJS, Jasmine, Jest, Mocha, QUnit, Protractor, Intern, Selenium, BrowserStack

DOM: WebComponents (Custom Elements, HTML Template, Shadow DOM, HTML Slots), WebSocket API, WebWorker API, SharedWorker API, MessageChannel API, WebRTC API, Geolocation API, Notifications API, AppCache/Manifest API, Cache API, Background Sync API, File API, FIleSystem API, WebStorage (LocalStorage, SessionStorage, IndexedDB), Canvas, Custom Elements, Video, Audio.

Backend

Object-Relational Modeling (SQL | NoSQL): Dynamo, Mongo, Postgres, …more
Framework | Library: Express, Sails, RESTify, Waterline (Object-Relational Modeling), Sequelize (ORM), Mongoose, Connect, Passport, Crypto, NodeUnit, Nodemon, Forever, Agenda, PM2, Puppeteer, ASP.NET MVC/Core, Rails, Java GWT.

FullStack | Front-End | Backend

Build | Deploy: Heroku, AWS, Release Candidate management, …more
Analysis: Big-O Notation, UML, Sequence Diagrams, Modular Arithmetic
Tooling & Tracking: Chrome devtools, Postman, Jira, ZenHub, Trello, …more
Authentication | Authorization: OAuth (+ PKCE), ClientLogin, OpenID Connect
Protocol: HTTP(S), WebSockets, SSE, CORS, TCP, CCNx/CCN/NDN/Mesh
Package Management | Version Control: NPM/NPX (Module System, Publish, Repository), Bower, Yeoman, RequireJS, Browserify, Git, SVN, ...more
Web API | HTTP Interfaces: REST, RPC, Microservices, GIS, … more.

Software Design and Engineering

Software Coupling, Cohesion, SOLID, Software Design Patterns, Algorithms & Data-Structures, UI|UX Design Patterns, JavaScript Design Patterns, MV*

Approach, Accomplishment and Implementation

PWA | Telemetry | Responsive Design | WCAG/508/ADA | I18n/L10n | Distributable Core | Memory/Heap Profiling | OWASP Application Security | Blackbox Analysis | Image Comparison | Custom Frameworks | RC Management | Standardization & Styleguide | Interview & Hiring | Business Analyst | UX Designer | Triage | Leadership/Direction, Evangelism | Successfully Running a Team of 8

History

Apr 2022 - Present [undisclosed] (FTE): [remote]. Senior Engineer
Oct 2021 - Nov 2021 Suite Studios (FTE): Boulder, CO. Principal Front-End Architect
Jan 2021 - Sep 2021 Alfi (FTE): Denver, CO. Principal Front-End Engineer
May 2015 - Jan 2021 Contracting & Consulting: Various. Available upon request. ← (see curriculum vitae)
Apr 2014 - May 2015 Colorado State, CDHS (FTE): Denver, CO. Lead Front-End
Nov 2013 - Feb 2014 PlaceWise Media (FTE): Denver, CO. Application Developer
Jun - Nov 2013 Active Network (C): Broomfield, CO. Front-End Developer
Apr - May 2013 Null Empire (C): Boulder, CO. Full-Stack
Jun 2012 - Jan 2013 BieMedia (FTE): Denver, CO. Software Developer
2008 - 2014 Volunteerism, Entrepreneurial, Training.

Maxims and Advocations

Testing | Documentation | Refactoring | Fail Early, Fail Often | Model & Domain Driven Design | Convention Over Configuration | LoD | CAMP | POLA | KISS | DRY | Design Systems | Algorithms & Data-Structures | Recursion | API Gateway | BFF | A11y | I18n/L10n | 'use strict'; | Sequence Diagrams | Git | OpenSource | Pair-Programming | Nonlinearity | Complexity | Scalability | Sustainability | Fault-Tolerance