{ 'Cody Carlson': 'Software Engineer' }

Apr 2022 - Present | Salty (CDK Global) | Senior Engineer

Tags: automotive, insurance, retail, browser-automation

Scope
- *Process*: Guerrilla/None | CI/CD | SPA, Automation | Monorepo, Microservice
- *Projects (5+)*: Flagship, Consumer-Facing | Server | DevOps (GitHub Actions)

Environment | Technologies
- Node | Puppeteer | React/Native & NextJS | Expo | YAML | Twilio | xState | Temporal/Workflow | Inquire | mTLS | OpenSSL
- *Patterns*: Event-Sourcing | FSM | [GoF] | …more.
- *Tooling*: Git | GitHub Actions | Temporal | Databricks, CLI/custom.

Responsibilities | Developments | Collaborations
- Participate in daily standup, working sessions, issue lifecycle, and other key ceremonies of the team.
- Learn repository layout(s), coding standards, and best practices as put forth by the team.
- Provide ownership of flagship, consumer-facing product in order to maintain, develop, and collaborate with offshore team.
- Leverage browser automation tools to marshal data from source applications to targets and provide validated outputs.
- Provide high-level ownership of Embedded Insurance pilot product in coordination with executives from external groups.
- Help drive discussions around automation of workflows, testing strategies, and environment normalization.
- Collaborate in formulation of formal and informal SDLC processes, customs and conventions with peers and leads.
- Lead by example through use & advocacy of normalization patterns and additional Software Design Patterns & SOLID Principles.
- Coordinate with DevOps while working on all projects to ensure desired infrastructural cohesion goals are achieved.
- Leverage xState (FSM), Temporal Workflow (Event-Sourcing), and other frameworks in tandem with AWS tools and more.
- Employ creative techniques to begin or continue work during slumps & outages using Mock Driven Development practices.
- Derive solution to normalize interfaces and high-differential structural & behavioral patterns involving REST APIs (both JSON & GraphQL), Puppeteer, and hybrid approaches alongside best practices for each; embody such within a framework and necessary tooling to be leveraged for new projects and those refactored.

Achievements
- Increased customer base through Internationalization of flagship product.
- Successful migrations.
- Strong [enough] documentation for onboarding & handoff.
- Highly triaged development practices using Mock Driven Development.
- Driver of communications with external groups such as Pace/IITC, Geico and Allstate.
- Maintained well-balanced, supportive relationships with teammates, managers, leads, and partners.

Sep 2021 - Nov 2021 | Suite Studios | Principal Front-End Architect
Tags: Video Production, Post-Prod

Scope
- *Process*: 2-week Agile (Lean) | CI/CD | SPA | Monorepo
- *Projects(2 phase)*: Design | Architecture & Development

Environment | Technologies
- Svelte | Sveltekit | svelte-dk-router | Rollup | Vite | Webpack | Babel | Jest | TypeScript | GraphQL | ...more.
- *Tooling*: Git | Atlassian | CircleCI | NVM | NPM | NPX | ...more.

Responsibilities | Developments | Collaborations
- Conduct Company, Competitor & Industry research: Goals, UX benchmarking, ...more.
- Conduct User Research: aggregate user needs/frustrations, create Personas for average & cornercases.
- Derive & define Information Architecture from existing User Stories, User Research, and Company research.
- Design & iterate on low-fidelity Wireframing candidates using design elements & principles:
  - lines, shapes, color, texture, typography, etc.
  - Alignment, Contrast, Visual Hierarchy, Proximity, Layouts, Whitespace, Consistency/Unity/Repetition, etc.
- Design & Iterate on high-fidelity Visual Design compositions: Glassmorphic Design, Split-UI, Material, etc.
- Handoff and monitor Usability Testing process (see Nielson Norman Group):
  - Visibility of System Status, Match b/w System & Real World, User Control and Freedom
  - Consistency & Standards, Error Prevention, Recognition Over Recall, Flexibility and Efficiency of Use
  - Aesthetic and Minimalist Design, Help users recognize, diagnose and recover from errors,
  - Help and Documentation
- Conduct and present research for Font and SVG Icon libraries: Bootstrap, Octicons, Google Font, Ionicons, ...more.
- Conduct and present research for Front-End frameworks: Angular, Svelte, React, Vue, Aurelia, LitElement/Polymer, ...more.
- Define Front-End roadmap: infrastructure, theming, feature development, v1 release, ...more.
- Define Front-End technical tasks for application architecture: core, store, environments, playground, routing, layout(s), ...more.
- Establish & implement application architecture based upon roadmap and technical tasks while conducting additional research.
- Triage engineering efforts in tandem with incoming scope-changes from superiors.

Achievements
- Successfully wore UX Design hat.
- Detailed framework evaluation based upon 45 weighted metrics metrics: architecture, nativeness, SDK, and integrations.
- Various low-overhead strategies for achieving *typed event-buses* with *dependent function-parameters* (TypeScript).

Jan 2021 - Aug 2021 | Alfi | Principal Front-End Engineer
Tags: Advertising, GDPR, HIPAA

Scope
- *Process*: Guerilla Process, 2-week Agile (Scrum) | Web | Edge | Machine Learning
- *Projects(2+)*: WebPortal | Device (Android & Web): new & legacy; multiple tablet, multiple Internet Kiosk Systems.

Environment | Technologies
- React | React Native | ReachUI | ADB (Android Debug Bridge) | Python | Cognito | ...more.
- *Tooling*: Git/Hub | Atlassian | G-Suite | Smart Recruiters | ...more.

Responsibilities | Developments | Collaborations
- Successfully open Denver office with CTO.
- Help move and establish each new Denver office location (initial + 2).
- Active & Inactive participatory Sit-Ins with C-Suite: Investor Pitches, Practice Pitches, Shareholder Meetings, Partner, ...more.
- Conduct recruiting within personal and 3rd Party network while monitoring candidate-tracking system (Smart Recruiters).
- Conduct interviews & hiring for frontend, peers and superiors while benchmarking candidates and coordinating with recruiters.
- Conduct both IT & normative onboarding and offboarding efforts in regards to hardware, setup, teardown and Exit Interviews.
- Produce various technical live & take-home tests in JavaScript, CSS, React.
- Collaborate with Business and Engineering personnel across multiple timezones across the United States & United Kingdom.
- Collaborate versioning, Release Candidates and Deployments with peer principals and C-Suite needs.
- Collaborate in helping to define CI/CD branching strategy while integrating into Front-End team's development process.
- Lead Requirements Gathering meetings with C-Suite and other stakeholders each sprint to derive content to aid in planning.
- Collaborate with external contracting companies to provide guidance in needs from a Front-End perspective.
- Coordinate meetings with correct personnel to identify problems and derive solutions for all things product and engineering.
- Coordinate Design, Development, and Testing schedules for Front-End with that of peer principals.
- Coordinate frontend development with Backend, Director of Engineering Belfast, Principal ML, Head of QA, DevOps, ...more.
- Produce & drive frontend standardizations, patterns, practices and discussions thereof to distill team balance therein.
- Manage frontend development based upon expertise, patterns and C-Suite directives for stability & feature development.
- Manage ongoing stabilization and restabilization of Web & Device apps before moving forward between code-freezes.
- Direct Front-End team schedules & goals in accordance with that of others while new client onboarding.
- Direct Front-End team coordination of SPIKEs, Design, and development in accordance with requirements and planning.
- Manage refactors and rewrites with versioning release candidates and timelines derived from business needs.
- Direct and provide feature design and code design to achieve positive feedback loops in development process.
- Direct and coordinate hotfixes and bug resolutions in tandem with versioning, release schedules, and client onboarding.
- Practice 1on1s with frontend team alongside microreporting strategy with Director of Engineering Denver.
- Produce Versioning & Release Candidates with deployments and coordinate such across Web Portal, 100's of Tablets, and Kiosks.
- Spearhead and fully perform consultation with Software Security Expert to determine the best platform for Tablet & Kiosk apps.
- Define & implement frontend application architecture used across Web and Device platforms.
- Produce POC for normative web-tech based, native JavaScript/TypeScript on-device solution for many new & legacy platforms.
- Write tall-order features such as auth (OAuth Code/PKCE), "Campaign Manager" rewrite, Permissions/Feature-Flag/A|B, ...more.
- Work actively on a daily basis to unblock frontend developers from auxiliary system issues using architectural workarounds.
- Participate in frequent full-team lunches.

Achievements
- Opened Denver Office.
- Candidate testing/interviewing, hiring, and tracking (SmartRecruiters).
- High-efficiency standardizations and styleguide.
- Eliminated need for 3rd Party React libraries, such as redux-thunk/sagas through lighter frontend application architecture
- Native Web POC of React Native replacement for Device platform(s).
- Exceptional Triage execution across multiple platforms including various devices.
- Successfully wore Business Analyst hat (Requirements Gathering, Grooming, Planning, collaboration with BizOps, etc)
- People Management and technical directorship.
- Successfully helped move company from startup to small business stage.
- Helped drive meta-process to move company from processless to Agile Scrum.
- Rewrote most-central-feature to free both development and business to seek new opportunities.
- More AWS familiarity

May 2015 - 01/2021 | Consulting - C2C

Work with elite teams in consultation to provide expertise in solutions to a rich set of problem-domains across a variety of disparate industries, processes and technologies. Provide aid to company process in onboarding, mentorship, and lowering operational-cost through technical guidance and hands-on innovation. Drive architectural cohesion through bottom-up design & engineering in various project scopes and scales such as Greenfield, Legacy, SPA, and ESA initiatives. Drive product and feature performance using proven methodologies and advanced approaches to maintain quality while meeting initiative deadlines.

Aug 2020 - Jan 2021 | Eldercounsel | Senior Full-Stack Engineer
Tags: LegalTech, HIPAA

Scope
- *Process*: 2-week Agile (Lean) | CI/CD | ESA
- *Projects(3)*: Monorepo (Paralegal Document Engine) | Microsoft Word Add-In | API (Lambda/Serverless)

Environment | Technologies
- Angular(10) | Python | DynamoDB | Nrwl | NPX | Angular Lib | @Angular/CLI | @Angular/material | RxJS | OfficeJS | ...more
- *Tooling*: Git | Atlassian | GitHub Actions

Responsibilities | Developments | Collaborations
- Attend and collaborate in Lean Agile process for standup, grooming, planning, and retro efforts.
- Collaborate in 100% remote setting to coordinate development efforts, paired programming, and onboarding.
- Leverage monorepo strategy to formulate packaging and deployment strategy.
- Leverage design patterns to develop high-reuse features and adaptive pilots.
- Leverage various technologies to analyze, modify, validate, and track versions of templates and hydrated XML and CSV file data.
- Deliver feature-requests derived by client stakeholders in accordance with user story specification.
- Provide architectural consultation to management according to engineering and business goals.

Achievements
- Lead frontend development direction toward mock and A11y-based content architecture for faster delivery.
- Converted Webapp to PWA for better Fault-Tolerance and User Experience.
- Lead backend development direction toward TDD process.
- Lead backend development direction toward reusable packaging, and common & cohesive Lambda patterns.
- Lead backend development direction toward common, cohesive Python Lambda patterns.
- Designed and implemented architecture around OfficeJS for more effective document editing.
- XPath

Oct 2019 - Dec 2019 | Swisslog Healthcare | Front-End Architect
Tags: HealthTech, HIPAA

Scope
- *Process*: 2-week Agile (Scrum) | CI/CD | SPA
- *Projects(1)*: Framework and High-Distribution Application Core

Environment | Technologies
- Angular(7) | Java | Postgres | Docker | TeamCity | Nexus | Angular Lib | @Angular/CLI | @Angular/material | PrimeNG | RxJS
- *Tooling*: Git | Jira | Crucible

Responsibilities | Developments | Collaborations
- Attend Scrum-of-Scrum meetings and collaborate in discussion of company structure reformation
- Lead development of Distributed Application Core & framework to be consumed by 11+ applications
- Work closely with Chief Designer to align directives of design & engineering
- Work with Documentation Lead and QA Leads align application architecture with testing and documentation needs
- Research and implement architectural solutions to complex asset-management for distribution of Localization files and more
- Research and implement architectural solutions to complex use-cases across various applications and UI/UX needs
- Research and implement architectural solutions to complex development and documentation needs
- Design, define, and improve upon documentation templates used for company-wide Design System showcase and development
- Drive & provide direction with new & existing peers for technical strategy regarding design, development & documentation goals
- Produce high-portability, high-scalability, and high-quality component & modules for various features across various applications
- Onboard new teammates from internal teams and recent hires
- Comport professionally in code-reviews, progress, and strategy check-ins

Achievements
- Build/Deploy and private NPM module registrar using TeamCity and Nexus
- Triaged high-quality development in tandem with high-progression Design System
- High-Distribution Application Core and Framework
- Auth-Permissions and Feature-Flagging Directive

Jul 2019 - Sep 2019 | CP&B (Crispin Porter Bogusky) | Full-Stack Technical Lead
Tags: Advertising, Rental, Travel, Reservation, Booking

Scope
- *Process*: Bi-Weekly Status and Alignment Meetings
- *Projects(4)*: RPC API (Remote Procedure Call), Product Admin (client), Product (client), Mobile App (client)

Environment | Technologies
- Node | Mongo | RESTify | ReactJS | ReactNative | AgendaJS | Continuation-Local Storage | PM2
- *Tooling*: Git | GitHub | …

Responsibilities | Developments | Collaborations
- Implement complex business-logic between Front-End & Backend for various procedures regarding "Specialized Vehicle" rentals
- Implement complex business-logic using FSMs (Finite State Machines) determining actions across Booking & Reservation states
- Develop strategies around Caching to push and pop data according to Reservation state
- Implement CronJob tasking to move Reservations from state to state, including nested [sub]states in tandem with cache
- Provide consultation on various current and up-coming proprietary research initiatives or prospective client projects
- Develop features in React by implementing native fetch and iterators for "Side Effect" services and Stateless Components
- Manually test & debug complex RPC API and client behavior

Achievements
- Advanced Patterns for conditional, sequential, and parallel Promise execution & chaining
- Event-Driven Finite State Machines using The Composite Pattern and Event-Targets
- Complex Reservation & Booking business logic

Oct 2018 - Mar 2019 | Huron Consulting Group | Lead Front-End Engineer
Tags: HealthTech, HIPAA

Scope
- *Process*: 4-week Agile (Scrum/Process-Cocktail) | CI/CD | Monolith
- *Projects(2)*: SSO Portal (SPA, JWT) | High-Distribution Application Core

Environment | Technologies
- Angular(7) | ASP.NET Core | SQLServer | Docker + Kubernetes | IIS | OpenID Connect | @Angular/CLI | RxJS
- *Tooling*: Git/TFS | Postman | SQL Server Management Studio (DBMS)

Responsibilities | Developments | Collaborations
- Write and debug various features.
- Conduct Mentorship.
- Perform Code Reviews.
- Participate in Planning.
- Task Analysis & Writing.

Achievements
- Self-Documented Onboarding Guide
- Front-End Application Architecture Audit & Triage strategy
- Decoupled Front-End
- Variable application configurations across build & deployment types
- Dichotomized and normalized Authentication & Authorization experience(s)
- Multi-Role Feature-Permissions & Feature-Flagging (Flag & A/B)
- State Management
- Distributed Application Core

Apr 2018 - Oct 2018 | Arrow Electronics | Full-Stack Web Engineer III
Tags: R&D, Integrations,, Micro-Contracting, Freelancer.com, Pure Greenfield

Scope
- *Process*: Agile | CI/CD | MicroService | API Gateway / BFF
- *Projects(1)*: SPA

Environment | Technologies
- MEAN | Angular(6) | Node | ASP.NET Core | Postgres | Docker + Kubernetes | IIS | @Angular/CLI | NgRx+ | Karma/Jasmine
- *Tooling*: Git | Atlassian | Postman | SSMS, Toad, Navicat, DBeaver (DBMS)

Responsibilities | Developments | Collaborations
- Write, Unit Test, debug, and document various features in tandem with WCAG AA compliance.
- Design, document, and implement Front-End Architecture Roadmap while articulating technical trade-offs.
- Provide Sequence Diagrams, UML, and other documentation for high-complexity UI & UX flows.
- Derive technical innovations in collaboration with hands-on Technical Lead.
- Practice knowledge-sharing, perform Code Reviews, and contribute to monthly DevHuddle.
- Participate in Planning, Pre-Planning, Retrospective, and Project Post-Mortems.
- Interview, Test, and assess potential team candidates in alignment with project scope, team goals, and skills requirements.

Achievements
- Front-End Application Architecture Audit & Triage strategy in alignment with WCAG AA Compliance
- Variable application configurations across build & deployment types
- Component Catalog, Styleguide, "Airplane Mode", and I18n/ L10n Prototype
- Distributed Application Core
- Front-End Design Systems Methodology for process automation
- High-Security Performant File Uploads

Jan 2017 - Mar 2018 | CVS | Sr. Web Engineer
Tags: HealthTech, HIPAA, R&D, Prescription Authorizations

Scope
- *Process*: Agile | CI/CD | Monolith(s)
- *Projects(N)*: ESA

Environment | Technologies
- MEAN | JavaScript (Raw + Polyfill) | jQuery | Angular(5) | ASP.NET MVC | @Angular/CLI | SVG
- *Tooling*: Git/TFS| Postman | Chrome DevTools | WireShark

Responsibilities | Developments | Collaborations
- Research and prove (POC) various features and delegations.
- Document, present, and articulate research discoveries, solutions, and trade-offs.
- Participate in Pair-Programming for Front-End troubleshooting and mentorship.

Achievements
- Troubleshoot and resolve 6-month+, outstanding, high-priority issue affecting largest client.
- Research and derive simplest solution to complex JavaScript Event-Logging requirements per HIPAA compliance (AnalogJS)
- *Management Testimonial*: Available Upon Request

Apr 2017 - Sep 2017 | APR (Advertising Production Resources Consulting) | Full-Stack Technical Lead
Tags: Advertising, Video Production, Consultation, Vendor Bidding, Provider Specifications, Contract Award

Scope
- *Process*: Agile | Evolutionary Prototype
- *Projects(2)*: SPA | Tooling

Environment | Technologies
- MEAN | Angular(4) | Node | Sails/Express | Postgres | Waterline (ORM) | @Angular/CLI | Karma/Jasmine
- *Tooling*: Git | Atlassian | Postman | Chrome DevTools Profiler

Responsibilities | Developments | Collaborations
- Drive technical project-scope exploration in collaboration with Business Analysts and VP Engineering.
- Report directly to VP Engineering and collaborate with VP on Relational Data-Models, roadmap, and Triage execution.
- Derive Evolutionary Architecture Definition strategy for Event-Driven Front-End system & Promise-Based Backend Service Core.
- Implement RESTful Service Backend [For Front-End] API Gateway and ORM
- Practice frequent code audits & grooming to mitigate Entropy, ChangeCost & OperationalCost while revealing vectors of Triage.
- Leverage Chrome DevTools Performance Profiler to troubleshoot memory-leaks and optimize application operations.

Achievements
- Technical Leadership of local & remote teams
- Decoupled Lean-Development Full-Stack Roadmap
- Low ChangeCost and low OperationalCost Engineering Ethics, Conventions, and Implementations
- Component Catalog, Styleguide, and "Airplane Mode"
- Multi-Role Feature-Permissions & Feature-Flagging (Flag & A/B)
- Optimization & Memory Profiling
- State-Loader Prototype

Oct 2016 - Mar 2017 | BlndSpt | Web Engineer
Tags: Consulting, WCAG/508, ARIA, A11y, FinTech, Accounts Payable, Accounts Receivable, Intranet

Scope
- *Process*: Agile | Consultation (Audit, Advise, Implement)
- *Projects(N)*: SPA/ESA/Various

Environment | Technologies
- MEAN | Angular(1.x/2) | Node | Express | Java | GWT | @Angular/CLI | Karma/Jasmine
- *Tooling*: Screen Readers (JAWS, NVDA) | Git | Atlassian

Responsibilities | Developments | Collaborations
- Implement A|B / Multivariate Testing using Adobe Target.
- Articulate technical solutions to stakeholders.
- Audit, advise and implement WCAG AA / 508 compliant strategies, infrastructure, and patterns.
- Provide mentorship and technical direction to Junior & Mid-Level Developers

Achievements
- A|B / Multivariate Testing
- WCAG
- Time Management

Apr 2016 - Sep 2016 | HealthGrades | Lead Front-End Engineer
Tags: HealthTech, HIPAA

Scope
- *Process*: Agile | Kanban
- *Projects(3)*: SPA/ESA/Various

Environment | Technologies
- MEAN | MERN | Angular(1.x) | React | Node | Express | ASP.NET MVC | Redux (Flux) | ImmutableJS | Jasmine
- *Tooling*: Git | Atlassian

Responsibilities | Developments | Collaborations
- Collaborate in a rich technology culture driven by both Agile & Kanban processes.
- Understand and contribute to multiple products for disparate teams & technologies.
- Transform business rules into SOLID Angular and React + ES6 UI components
- Lead Front-End team in development toward architectural design and business implementations.
- Coordinate system-maintenance schedules and drive system-health for formal & informal release goals.
- Participate in company restructure effort to follow "Squad" style patterns and adaptation to Kanban process.
- Maintain & develop inherited legacy system while achieving quarterly goals.
- Derive UX specifications through collaboration with Design, and PO(s).
- Propose component interactions through sequence diagrams, presentations & other feedback systems.
- Cooperate in close cohesion with QA Lead & members to ensure system(s) performance & quality.
- Indulge in team-culture activities: Squad identity, social health, "Moonshot Goals".
- Evolve existing systems as front-end lead under new technical lead for expansion of Squad.
- Organize technical specifications for system-refactor initiatives while maintaining legacy system.
- Contribute to strategies on design for new & repurposed directives and provisions.

Achievements
- Cybernetic Scheduling System
- Distributed User Interfaces
- Chain of Responsibility & mediatory inheritance patterns

May 2015 - Dec 2015 | Oppenheimer Funds | Sr. Front-End Engineer
Tags: FInTech, ARIA, Front-End Application Architecture, Unit Testing, Functional Testing

Scope
- *Process*: Agile | Consultation (Audit, Advise, Implement)
- *Projects(N)*: ESA

Environment | Technologies
- JavaScript (Raw + Polyfill) | Angular(1.x) | Vue | Rivets | NPM | RVM | Ruby | Rails | Karma/Jasmine | Intern | Selenium
- *Tooling*: Git | Atlassian

Responsibilities | Developments | Collaborations
- Aid in refactoring a legacy Enterprise Scale Application to a responsive paradigm & fast-paced Agile environment.
- Collaborate in team-driven design & feasibility sessions with key stakeholders and PO(s) to design targeted UI/UX components.
- Update and maintain documentation for a variety of UI components.
- Participate in Pair-Programming and collaborate with QA to identify & resolve code-smells and bugs.
- Adapt & contribute to a large & growing knowledge-culture to derive optimizations, reduce system entropy and promote Reuse.
- Prototype an infrastructure to employ testing practices using JavaScript & Ruby TDD/BDD frameworks.
- Derive system-health metrics to aid in estimating Cyclomatic Complexity and Coupling strength.
- Assess system health and requirements to arrive at a complementary Architecture Definition.
- Design proprietary MVA Core on top of VueJS and implement an Event-Driven Architecture and application-mediator.

Achievements
- Defined CAMP Model of Coupling Analysis (Average Couple Per Module)
- Cyclomatic Complexity Analysis
- Front-End Testing Infrastructure (TDD/BDD + Functional)
- Front-End Architecture
- VerticesJS

May 2010 - May 2015 | Full-Time Employment
Drive toward aggressive deadlines while ensuring quality through the application of plenitudes of various micro-libraries, frameworks, and other tooling such as Bootstrap, jQuery, RequireJS, Knockout, Backbone, Ember, Angular (1.x), and *many* others. Accrue experience in multiple backend and database languages while acquiring top-notch mentorship from software engineering & architecture veterans. Work with and recognize patterns across numerous industries, processes, and sectors while implementing unique solutions to challenges in accordance with each environment.

Apr 2014 - May 2015 Colorado State, CDHS (FTE): Denver, CO. Application Developer
Played key role as Lead Front-End and application architect on multiple, public and internal projects while coordinating with Lead Backend Engineer to develop seamless process and feedback systems for more than 64 Colorado counties and their unique needs. Maintain critical communications between Lead Engineers, Product Management and Business Analysts.
- Participatory directorship in design of UI & UX, Modeling, and planning in a Waterfall & Agile dichotomy.
- Standardize frameworks, Theming, Modeling, engineering practices including development and testing, Architecture & Scaffolding, logical-infrastructure, and efficacies in coordination with team-lead.
- Provide methodology & proponent reporting and mentorship & training to junior staff.
- Demo & present technologies to enhance productivity while analyzing and assessing system entropy, Criticality, Emergence, Cyclomatic-Complexity, Coupling, and Cohesion.
- Define architecture & scaffolding in Refactor of existing system, and port existing logic.
- Leverage Design Patterns to mitigate entropy, facilitate reuse, and obviate architecture-definition degradation.
- Conjunct high-entropy implementations into components, regarding templates, models, and modules.
- Plan, design, and develop Refactor's Application-Core while engineer proprietary core framework.
- Port Refactor's Core & Architecture to AngularJS paradigm.
- Progressively refactor existing system using Patterns including Decorator, Facade, Adapter, Mediator, and others, to evolve architecture to Event-Driven paradigm, providing for weak coupling, high-cohesion, defined 'dependency-network', and low-entropy infrastructure.
- Design and implement Event-Driven Architecture for new project [prototype] using mediation patterns and AngularJS.
- Define and scaffold testing faculties and derive standardized framework suite.
- Develop and maintain multiple projects' Front-end subsystems: legacy system, Refactor & framework, and prototype.
- Developments: Case & Client Search, Printing & Reporting, Validation, Session, Mediator/Core, and more.

Nov 2013 - Feb 2014 PlaceWise Media (FTE): Denver, CO. Application Developer

- Agile environment with Sprint-size undulation.
- Mentor Junior Developers in algorithmic/syntactic methodologies and proven application architecture designs.
- Employ completely self-directed onboarding methodologies.
- Contribute to the identification and design of mathematical models for aggregation and transportation of large data-sets.
- Participate in stand-ups, Sizing, and other team decision-making processes.
- Design and implement Angular architecture and conventions for a 'Site and Content' search platform.
- Strategize and employ the use of various frameworks and interface with a RESTful backend.
- Manage feature implementation regarding wireframes and user-authentication.
- Employ cybernetic programming techniques for autonomy and readability.
- Gain an understanding of high-entropy, complex systems, their evolution and emergence, and their usefulness.

Jun - Nov 2013 Active Network (Contract): Broomfield, CO. Front-End Developer

Played key roles in Module and API development, integration of AngularJS and RequireJS -- the primary frameworks used in the Active Network PaaS solution. Collaborated with a small core group in the architecture/design of the platform's E-commerce UX, integrating discrete feature/functionality such as PhotoCropping, ShoppingCart implementation, and the User-Product-Assignments Interface.

- Agile + Waterfall environment.
- Collaboration and coordination with multi-site, multi-team stakeholders critical to product design and features.
- Develop app-platform in Node/Express, Angular, Require, Grunt, Less, Bootstrap, and many more.
- Lead and participate in the design of UX/UI, and data-logic of Ecommerce app.
- Architect of Angular infrastructure.
- Leverage logic manipulations to maintain control, reuse, scalability, and flexibility in the AMD paradigm.
- Leverage Angular APIs, modules, and templates to facilitate code reusability and scalability.
- Port Node/IIS app to Microsoft MVC/ASP.NET/C# platform dichotomy.
- *Special Developments: Image-Comparison | Array-Digest-API.

Apr - May 2013 Null Empire (Contract): Boulder, CO. Full-Stack Developer

Contributing role in feature development spanning from custom-forms to MVC routing and interacting with the MongoDB database. Developed AJAX forms which tie into MongoDB using Node, Express, BackboneJS using Stylus and CoffeeScript in tandem with RequireJS, and Bootstrap.

Jun 2012 - Jan 2013 BieMedia (FTE): Denver, CO. Software Developer

Key contributor in modernization projects intended to port legacy systems to newer technologies. After 'gutting' entire physical-server infrastructure, provided sole development in porting legacy Playback Technology from iFrame and Procedure-Orientation to AJAX and OOP. Initiated goals of re-engineering custom playback technology to have a 'Smart-Layout' and exposed API-hooks for seamless client integration and control.

- Design, develop, test, and manage SDLC for a dynamic HTML5 video player based upon feature requirements relating to various APIs and openSource technologies.
- Design for various client configurations and feature agglomerations.
- Coordinate between client-needs in a pseudo-Agile prototypical structure and expose a user API. Design an integrated GUI for stream-lineal 'Player, Uploader, & Client-Config' creation.
- Administrate architectural Design Patterns, coding conventions, and integration techniques to ensure application scalability, fluidity, and User Experience flow.
- Attend technology convention events, such as HTML5DevConf (San Francisco, CA) for further insight of cutting-edge resources and coding methodologies to aid in current and provisional project foresight.
- Project research, widget development, utilize encryption technologies.
- Design abstractions and leverage Design Patterns such as MVC, Revealing Module Pattern, Bridge, pseudo-PubSub, and others.
- Leverage version control technologies such as Git.

2008 - 20 | Entrepreneurial and Training**

During academia, throughout experience, and to this point, there has consistently been a very high value placed on learning new skills & technologies, experimentation, and application thereof in real-world settings without safety-nets. Anything from personal side-projects to volunteerism, to evangelizing large groups of technologists behind a cause, idea or concept -- there has always been abundance of opportunity to push the needle and pack as much punch into my experience as possible.

May 2010 - Jun 2012 BaxterBoo.com (FTE): Centennial, CO. Developer in Training / Auxiliary Support Developer
2014 - 20 Flitter (Entrepreneurial): Denver, CO. Principal Engineer**
2012 - 2014 The Venus Project (Volunteer): Venus, FL. Senior Front-End Engineer
2012 - 2012 Nei.ghbor.net (Entrepreneurial): Denver, CO. Lead Technology Engineer
2010 - 2011 Kibbutzer (Entrepreneurial): Denver, CO. Principal Developer
2008 - 2010 DudesThatKnowStuff (Entrepreneurial): Denver, CO. Co-founder & Developer

Auxiliary Developments and Contributions

Browserless https://github.com/cScarlson/browserless: *A superlight unopinionated component-based frontend development framework.*
Motorman https://github.com/cScarlson/motorman: *A Routing Engine for managing Express projects.*
Conductor https://github.com/cScarlson/motorman-conductor: *MochaJS Wrapper.*
AnalogJS https://github.com/cScarlson/analog: *A reasonable JavaScript Event-Logging Strategy across environments & time.*
VerticesJS https://github.com/cScarlson/vertices: *Front-End Application Framework for scalable, sustainable projects.*
PresidentJS https://github.com/cScarlson/President: *Promise A+ conformant promises library.*
Worker.io https://github.com/cScarlson/worker.io: *Custom Events SharedWorker for shared-state across browser tabs.*
sawkit-node https://github.com/cScarlson/sawkit-node: *Node Module and Adapter-Pattern for WebSockets.*
sawkit-client https://github.com/cScarlson/sawkit-client: *Front-End Client Facade for sawkit-node (WebSockets).*
SDB https://github.com/cScarlson/SDB, http://microjs.com/#SDB: *IndexedDB Facade for happy-path DB-Transactions.*
jsonPsync https://github.com/cScarlson/jsonpsync: *Synchronous JSONP calls.*