

## ❖ Nash Worth (Clinton Ashworth)

alpinefalcon@protonmail.com  
(303) 877-3139  
Colorado



## DataVis, GIS, 3D, Cyber Security ❖

**GitHub:** [github.com/netcinematics](https://github.com/netcinematics)  
**LinkedIn:** [www.linkedin.com/in/nworth4/](https://www.linkedin.com/in/nworth4/)  
**Portfolio:** <https://linktr.ee/spazefalcon>

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### OBJECTIVE

Full-time, senior visualization architect, highly capable of diverse and challenging role. Drawing from 20 years experience, of many skills and technologies. Able to learn quickly, and intelligently communicate flawlessly to teams, 3rd parties and executive leadership teams, critical business intelligence needed - to take quick decisive remediation action.

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### SUCCESS STORIES

- ★ **Data Visualization Dashboard for Wells Fargo**, monitor real-time **analytics** of threat assessments, threat vectors and insider threats, PDF.
- ★ **OWASP WhiteHat** since 2009, trained in Washington DC and Florida, Cyber Security conferences, while **LEAD DEVELOPER** at 1st BANK.
- ★ Helped **INFOSEC** team decipher real-time (foreign) DOS attack, because of expert ability to quickly decode/read JAVASCRIPT/JSON/XML.
- ★ **SAP Team Lead**, for global **eCommerce platform**, worked closely with **CISO**, to implement server security with **helmet.js in Node.js**, etc.
- ★ Used **Wireshark** (other tools) to monitor **AJAX API transactions** to ensure **https cert** protected sensitive data from man in the middle.
- ★ Provided actionable intelligence to INFOSEC TEAM of vulnerable files outside of secured area, used to help update security posture.
- ★ As Front-End Lead, **educated** on “escaping inputs” to avoid **CSRF/XSRF**, with **CORS**, and for other attacks like **SQL Injection & Reflection**.
- ★ Implemented multiple authentication systems at financial institutions and high-value, **public-facing, enterprise infrastructure systems**.
- ★ **Charts:** D3.js, HighCharts, Processing.js. **GIS:** Maps, Geographic visuals/animations. **Analytics:** Data Translation. Timelines. **AI/NLP**.
- ★ Latest and Greatest **training at Encode Camp** for Web3, Solidity **C++**, **JS**, **best-practice** like: under/overflow, re-entrancy, env mitigations.
- ★ Implemented **Build Systems** for multiple companies: eCommerce, Banks, Finance and Data Visualization image formatting and curation.
- ★ Implemented 100% FullStack GIS map views, from FrontEnd (RMI), to Java server, to Oracle SQL query to response and data rendering.
- ★ More than 5 professional Cyber Security experiences, work and training (below) across all types of platforms and technology stacks.
- ★ **Data Visualization specialist in San Francisco**. Many custom **D3 Charts/Maps/Dashboards** for executive teams, with custom designs.

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## SKILLS & TALENTS

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- ★ Technical Polyglot: **JavaScript**, TypeScript, **C/C++**, **C#**, Java, PHP, **HTML5**, **CSS3**, **JSON**, XML, **SVG**, **WebGL**, **Web3**, **Solidity**.
- ★ FrontEnd: ReactJS, NextJS, MVC, Angular, Backbone, ExtJS, jQuery, TailwindCSS, Bootstrap, LESS/SASS. Vanilla JavaScript, DOM, HTTP, HTTPS, headers.
- ★ **API**: HTTP/TCP/SMTP/WebSockets, **NodeJS**, REST, POSTMAN, CORS, IPFS, AWS, promises, Async/Await. Semaphore and Mutex in C++.
- ★ **Advanced Study**: IoT, Artificial Intelligence, Linguistics/Syntax, AR/VR, GIS, 3D, Metaverse, Blockchain and more. Natural Student/Teacher.
- ★ **TEST**: JUnit, Mocha, Chai, Jest, Data Mocking, Code Coverage, Pair Programming, early adopter of TDD/BDD.
- ★ CMD: PowerShell, GitBash, ZShell, git/GitHub, BAT, vim, services, perl and shell scripting. HoneyPots.
- ★ **Cross-Platform**: Microsoft, Apple, Linux, Command Line, Virtual Machine. Apps and App Stores. Mobile, Desktop, Cloud.
- ★ **ES6**: Module, DESTRUCTURING, Spread, class, import/export, set, Arrow Fn, Literals, **Type-Safety**, **use-strict**.
- ★ Build Systems Continuous Integration: Jenkins, NPM, NPX, Yarn, Grunt/Gulp/Ant, Webpack, wrote documentation.
- ★ FullStack SQL, PostgreSQL, Oracle Spatial, Relational Database. NoSQL: MongoDB, CouchDB, knex, mongoose.
- ★ **UX/UI and DESIGN TRAINING**: Visual, Mobile (RWD), Architecture, HMI and Design-Thinking experience, grid system CSS Flexbox too.
- ★ **DESIGN PATTERNS**: Componetization, Module, State, Iterator, Lambda, **HOOKS**, PubSub, Proxy, Algorithms, Data Structures: all of them.
- ★ **REACT PATTERNS**: **HOOKS**, FLUX/REDUX, JSX, Virtual DOM, Callback Props, Angular, data-binding.
- ★ **TEAM-PLAYER**: natural leadership, high-energy, passion, curiosity, AGILE methodology.
- ★ **MENTOR-BONUS**: consistently helps teams share knowledge, with **Excellent Soft Skills and Communication**, in a way that people love!

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## INFOSEC TIMELINE

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- 2006: embedded IP and MAC Crypto Hash, for Digital Rights Management solution on Geospatial team for GE & TimeWarner Cable.
- 2007: Retel Technologies, used **AWS** to save Crowdsourcing Video Security metadata, w/ DASHBOARD mechanical turk, at TechStars.
- 2008: **GIS Geocoding** of IP transmission frequency/metadata between high-value targets for geospatial business needs.
- 2010: **Mobile** DASHBOARD for Financial charts, Pie, Bar, Line, with Timeline and visual design for financial institutions.
- 2011: INFOSEC investigation of real-time DOS, I was asked to read/interpret the JavaScript attack by INFOSEC team.
- 2012: gave actionable intelligence to INFOSEC team for Java vulnerability for successful mitigation.
- 2013: High-pressure, DRM implementation for SSL Video Systems used to host Olympics and Superbowl.

- 2014: OAuth authentications integrations, and architecture best practices implementations.
- 2014: PHP Honeypot (not updated) blog hacked, I conducted post-mortem, and code analysis.
- 2015: Applied HELMET to SAP eCommerce app, after POSTURE review with international executive team.
- 2016: built advanced zoomable bubble chart, cluster diagram, and map showing Threat Actor/Vectors.
- 2017: used advanced SQL to data mine for suspicious data, with investigations to “tell the story”.
- 2018 - 2020: advanced study in Hashing Blockchain encryption Merkle Trees and Smart Contracts.
- 2021: Certified to teach Cyber Security curriculum at Thinkful, based on extensive experience and student demand.
- 2022: Studied Attack Vectors in Blockchain Smart Contracts, like buffer overflow/underflow, etc.
- 2022: Studied Blockchain security best-practices for Web3 in Solidity, C++ and JavaScript.

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## PROFESSIONAL EXPERIENCE

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FULL-STACK, FULL-LIFE-CYCLE, JS Web3, BLOCKCHAIN METAVERSE ARCHITECT / INNOVATOR Boulder, Colorado  
**NetCinematics** 09/2017 – Present

- ❖ Architect and implementation of NodeJS, automated command line factory for content and MOBILE APPS.
- ❖ DESIGN and Implementation of Web3 JS Blockchain using various APIs like Alchemy, Solana, Eth, Polygon, more.
- ❖ Deep-Dive exploration and PROOF of CONCEPT for IPFS, Minting and Smart Contract integrations in Solidity.
- ❖ Proven ability to be SELF-DIRECTED and LEARN MAXIMUM COMPLEX SYSTEMS quickly.

FULLSTACK JAVASCRIPT MENTOR Online, Remote  
**Thinkful** 08/2017 – Present

- Successful graduation of HUNDREDS of FULL STACK adult students and excellent connections with new talent.
- Mastered the ABILITY TO WORK WELL WITH ANYONE, and smooth/effective communications for any communication style.
- Quickly adapted NEW TECH like ES6 and REACT HOOKS answering in-depth questions and LIVE-CODING skills.
- Certified to teach Cyber Security Curriculum in 2021.

SENIOR CYBER-SECURITY DATA-VISUALIZATION SanFrancisco, California  
**Bay Dynamics** 07/2015 – 02/2017

- EXCELLENT SOLUTIONS for ALL TYPES of state-of-the-art CUSTOM DATA-VISUALIZATIONS.
- Ability to SEE PATTERNS in the Data, and REVEAL THE STORY within CHARTS, ANALYTICS and query BIG DATA.

SENIOR E-COMMERCE - TEAM LEAD Boulder, Colorado  
**SAP / Hybris** 10/2014 – 07/2015

- Conducted security Posture Review with international executive team and direct contact with B2B customers.
- Implemented: NODEJS Helmet Security, SHOPPING CART, BUILD-SYSTEM, COUPONS and technical documentation.

SOCIAL-NETWORK - TEAM LEAD Boulder, Colorado  
**gloo** 05/2014 – 09/2014

- Angular JS, Social Media site, team lead with Gamification implementation of Mortar Block UI/UX Layout.

- Implemented Modular Architecture and Custom Components, for scalable, best-practice Angular codebase.

ENTERPRISE WEB-VIDEO - TEAM LEAD

Boulder, Colorado

**Dish / dishanywhere.com**

05/2013 – 05/2014

- Implemented 1st of its kind WEB VIDEO SOLUTION, with DRM, for the SUPERBOWL, OLYMPICS implementation.
- Lead international best-practices like GitHub gitflow with Agile Development Methodology, and implemented favorites.

ENTERPRISE WEB-FINANCE - TEAM LEAD

Denver, Colorado

**FirstBank / efirstbank.com**

02/2011 – 05/2013

- Lead major initiative for FINANCE VISUALIZATION software across RESONSIVE Web, Tablets, and MOBILE.
- Completed AD PROMOTIONS of 2D Illustrations for CREATIVE (cool and funny) GRAPHIC DESIGN. And more.
- In-depth, INFOSEC White Hat training and hands on experience with Financial Services Security Practices and Protocol.

GEOSPATIAL - Mapping Front End Architecture

Lakewood, Colorado

**Spatial Business Systems / spatialbiz.com**

08/2009 – 02/2011

- Delivered major telecommunications MAPS of fiber-optics GIS, across North America for TimeWarner Cable and GE.
- Proved and implemented 1st FULL-STACK AJAX ASYNCHRONOUS architecture - advanced training in Stuttgart Germany.

**MESSAGE to Hiring Manager:** *Mastery of WhiteHat skills is my dream career, and makes me a great fit for you! For 20 years, I follow a passion of curiosity, in self-directed study of complex systems and leading-edge innovation. While I never claim to know everything, I am capable of bringing to your TEAM - quick mastery of any complex technology. With an excellent track-record, I've proven the ability to bring dependable competence and value to your team everyday. With consistent hard work for every project, I smoothly meet business requirements and deadlines, with minimal drama. With bonus mentorship skills, I am a catalyst of: SOFTSKILLS, DEPTH & BREADTH, and ATTENTION TO DETAIL, across the team, stacks and platforms. You can depend on me to communicate with 3rd parties and executive teams because I am a seasoned senior professional. With a great attitude and ability to succeed with anyone, you'll add a trifecta of talents to your team: **technical skills, design skills, and soft skills** to help make your projects a success. I look forward to meeting you and hope **to work with you for many years.***

**HOBBIES and Character ethic:** *I am a high-energy, smart and fun team player, with a "work hard play hard" personality, who enjoys Martial Arts, Working out, Hiking, Fishing, Cliff Diving, and Camping with my family in the Rocky Mountains. Studious, I always read about new innovations in technology, in a life-long hobby I call "tech radar". Where I keep current in many areas of complexity like: vulnerability/exploits, Blockchain, AI, Quantum Computing and more. Upon joining your team I magnify many talents by actively sharing "tech radar" with your TEAM.*

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## Education

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PROFESSIONAL SELF-DIRECTED EDUCATION at many **CONFERENCES**, here are a few:

**OWASP CYBER SECURITY** conference in Washington DC ~ 2011

→ Learned about Attack Vectors, Exploits, and AJAX Security, including CORS, CSRF, XSRF, SQL Injection/Reflection, more.

**No FLUFF JUST STUFF** conference in Ft. Lauderdale Florida ~ 2012

→ Hands-on tooling workshop with WireShark, NMap, Portscan, encoding/decoding, and more.

**Future of Technology** conference in San Francisco California ~ 2014

→ Learned about REACT and VIRTUAL DOM dirty checking innovation from REACT innovator - before it was industry standard.

**FULLSTACK AJAX** training in Stuttgart Germany ~ 2007

→ Web 2.0 early adopter, before Google Maps, PROVED and implemented Full Stack Asynchronous AJAX to executives.

B.S. COMPUTER INFORMATION SYSTEMS

**Graduated 2002**

**University Northern Colorado**

→ Dean's List. 4.0 Presidential Silver Scholarship Award.

→ Advanced study in **Artificial Intelligence and Natural Language Processing, visuals, finance, and DESIGN PATTERNS.**

**ACTIVE PROFESSIONAL MENTOR/VOLUNTEER/SPEAKER:**

*TechStars 2008, JSDenver 2010, RefactorU 2013, DaVinci Institute 2017, Thinkful 2017- current, Encode Camp, Alchemy University, ETHDenver 2022/2023*