aTc   Andrew T. Carl

Lead Software Engineer and Technical Architect with 16+ years of experience spanning enterprise, Web3 infrastructure, and game development. Proven record of leading high-impact engineering teams, designing scalable architectures, and delivering secure, user-focused solutions in blockchain, SaaS, and real-time systems.
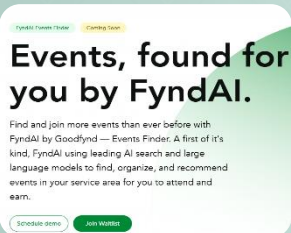
Portfolio
atcweb3.com/

Linkedin: https://www.linkedin.com/in/andrew-thomas-carl/
Email: AndrewThomasCarl@outlook.com
Location: Greater Harrisburg Area, PA, United States
Phone: 443-929-9526

Experience

Launched AI Event Finder.

Lead Software Engineer
Goodfynd | August 2024 – August 2025
Empowering the future of mobile food

SaaS Subscriptions: Led the design and deployment of a Stripe SaaS subscription system, including feature enhancements for billing flexibility.

AI-Powered Lead Generation: Developed an AI-driven event scraping tool using Gemini and OpenAI APIs to extract detailed local event data, generating automated leads for vendors to contact to book their own events.

Infrastructure & Performance: Refactored API architecture to a scalable V3 pattern, improving maintainability, performance, and reliability of vendor

Integration Testing: Built comprehensive integration tests with mock application and MongoDB databases to ensure system stability across complex workflows.

Content & Marketing: Created product-focused marketing landing pages to drive feature adoption and ensure cohesive user messaging.

Contact: Dean Thrasher (SVP) - email: dean.thrasher@gmail.com | 202-302-7667

Launched Funtoken Website.

Chief Technology Officer
FBCoins (Funtoken) | April 2024 – August 2024
FUNToken is the one-stop gaming token. Top 600 on CMC

Auditing: Ensured zero codebase vulnerabilities, reviewed rollback risks of the FUN bridge, and analyzed FUN holder data.

Rebuilding: Recruited a new dev team after 64 candidate reviews and 15 interviews. Hired 2 expert full-stack engineers.

Website: Launched in days using NextJS. Enhanced UX, added blog API, animations, automated WebP conversion and sitemap.

GameHub: Pitched and built a new brand direction using web3 trends. Designed framework, UX, and monetization model to grow community.

Blockchain Audits: Led 2 investigations tracing stolen funds across bridges and wallets to KYC exchanges.

FunHub Figma Designs

Contact: Khalid Ibrahim (CBDO) - email: Kmamoun@gmail.com

Skills - Expert

Analytics: Research tests (Evapco). Blockchain audits (Glitter, Funtoken). Platform usage (Goodfynd)

APIs:. Bridge API (Glitter). Blogs API (Funtoken). Dashboard API (Goodfynd)

Bridges: Built Algo-Sol bridge, USDC bridge on ETH, Poly, Algo, Sol, Tron, Avax, Arb, Op & ZkEVM. (Glitter)

C#:. Thermal software (Evapco). Game development (Re3Studios). Client websites (BlueModus). APIs (Goodfynd)

JSON:. Dynamic content (Re3 Studios), blogs (Glitter), bridge data (Glitter) and AI Event Extraction (Goodfynd).

Reporting:. Technical publications (Evapco) [1] [2]. Safemoon blockchain analysis. (Doxxlocker) [3].

Unity:. Extensive engine work on procedurally generated voxel game, Satus (Re3 Studios)

VB.NET:. Extensive work on thermal software (Evapco)

Skills - Proficient

Architecture:. Lending-Borrowing & Bridges (Glitter). GameHub (Funtoken)

Blockchain:. RPC & API connections with Algo, Sol, Tron, EVMs, Layer 2s.

Cloudflare:. Multiple websites, DNS, pages. (Glitter, Funtoken)

Digital Ocean:. Deploying 8 droplets (Glitter). 1 Droplet, 2 Apps (Funtoken)

Email Marketing:. Email templates for multiple clients (BlueModus)

ESLint: Added to all new JS/TS projects (Glitter, Funtoken)

Express:. API server for Glitter Bridge

Experience (Cont)

Certified in 2.5 Weeks.

Web Developer Lead
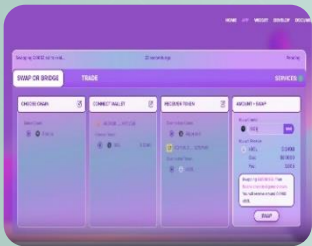**BlueModus | September 2023 – April 2024**

BlueModus is an agency that supports website development for CMS marketing sites.

Kentico: Without prior knowledge of CMS systems, I was able to get certified in Kentico Xperience 13 in the first 2.5 weeks on the job.

Search: I optimized an API sync between Netforum and Kentico, reducing update time from hours to minutes. Also worked with Azure Cognitive Search.

Email Marketing: Built dynamic email templates using MJML and complex Kentico macros for personalization, ensuring they work in any email client.

Contact: Joel Anderson (Director) - janderson@bluemodus.com

Glitter Blockchain Bridge.

Principal Software Engineer
Glitter Finance | May 2022 – August 2023
Glitter is a blockchain bridge for the everyday user.

SDK and API: Built the primary SDK for internal and third-party use, and developed a real-time blockchain polling system tracking 10 chains.
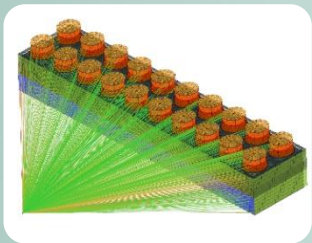
Token Bridges: Developed and deployed TEAL contracts for an Algorand-Solana bridge, led USDC bridging to 8 blockchains, oversaw frontend implementation, and contributed to an EVM bridge deployment.

Building Dev Team: With 220 candidates and 60 interviews, I filled 10 positions.

Bridge Explorer: Created a unified bridge explorer displaying all transactions and live metrics across three Glitter bridges for full transparency and monitoring.

Luster Protocol: Co-designed the Luster lending-borrowing prototype with yield optimization, installment-based borrowing, and stable tokenomics.

Contact: Khalid Ibrahim (COO) - email: Kmamoun@gmail.com

Custom Sound Modeling.

Thermal Software Engineer
Evapco-Evaptech | December 2008 – March 2021
EVAPCO, Inc. is an industry-leading manufacturing company for worldwide heat transfer applications.

Thermal Software: Modernized VBA to .Net WPF, deploying to Azure using MSSQL and Azure functions, Includes graphs and macros.

Acoustic Software: Developed advanced sound prediction tools with detailed path modeling, environmental effects, and dynamic 3D visualizations of cooling tower acoustic behavior.

Thermal Expertise: With 12+ years of thermal analysis and design experience enhancing components and testing systems, I authored a comprehensive 90-page design guide and co-authoring two CTI-published papers.

Contact: Mark Huber (Director) - email: mhuber@evapco.com | 410-756-2600

Mechanical Engineering (B.S.) from University of Maryland Baltimore County (2008)
GPA: 3.978/4.0

Skills - Proficient (cont)

- **Github**:. 3 repos (Re3 Studios), 15 repos (Glitter), 10 active repos
- **Hiring**:. Hired 10 positions (Glitter), Hired 2 positions (Funtoken)
- **JavaScript**:. Server and front-end (Glitter), websites (Funtoken)
- **Kentico**:. Multiple client website builds (Bluemodus)
- **Management**:. 5 devs & 4 projects (Glitter), 2 devs & 2 projects (Funtoken)
- **MS SQL**:. Project & user data storage (Evapco)
- **Node.js**: Algo-Sol & USDC bridge (Glitter), RPC poller (Glitter)
- **RPCs**:. Quicknode/Ankr & Etherscan API & CMC, Coingecko prices (Glitter)
- **Smart Contracts**: Automated security analysis of 100,000 BNB contracts
- **TypeScript**:. SDK (Glitter), Websites (Funtoken, Glitter, my portfolio)

Skills - Experienced

Algorand	ASP.NET
Azure	Confluence
CSS3	Gimp
HTML5	Inkscape
Jest	Jira
Next.js	npm
PostgreSQL	Postman
Python	React
Rust	Solidity
Swagger	TailwindCSS
Websocket	Winforms
WordPress	WPF

Skills - Limited

AWS Django Docker Elasticsearch
MongoDB Nginx Sitecore