# aTc Andrew T. Carl



I am a **Lead Software Engineer** with 15+ years of experience in industrial engineering, software development, and Web3 architecture. As a generalist who is quick to ramp up, my goal is to make your product fast, friendly, reliable and secure.

Portfolio atcweb3.com/ LinkedIn: in https://www.linkedin.com/in/andrew-thomas-carl/ Email: AndrewThomasCarl@outlook.com Location: Greater Harrisburg Area, PA, United States

**Skills - Expert** 

Phone: 443-929-9526

### Experience



### **Chief Technology Officer**

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

**Auditing**: As CTO, I ensured there were no security vulnerabilities in the codebase. I assessed rollback impact of the FUN bridge and conducted in-depth analysis of FUN holders.

Launched Funtoken Website.

**Rebuilding**: A rebrand required a new team. After 64 candidate reviews and 15 interviews, I hired two expert full-stacks with complementary skills.

**Website**: To meet a tight website launch date, I ramped up on NextJS in a matter of days, adding animations, refining the UX, adding the dynamic blog API, as well as automating WebP image conversions and sitemap generation.

**GameHub**: This was my idea to rebrand FUN. Leveraging one of the hottest web3 trends and its built-in communities, a hub is easier to build and acquire users than building games. I designed the framework, tech-stack, UX wireframes, and the numerous ways to monetize without alienating users.

Blockchain Audits: I also conducted two internal

blockchain investigations to trace stolen funds. I was able to trace funds across bridges and mixed-wallet trails to dozens of transactions to KYC enabled exchanges.

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

#### 🛞 Kentico

<sup>Certificate</sup> Kentico Xperience 13 Certified Developer.

#### This is to certify that Andrew Carl

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 from scratch, using MJML as a base, applying complex Kentico macros for personalization, setting up subscriptions, and testing formatting in dozens of clients using Email on Acid.

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



FunHub Figma Designs

#### Analytics: Research & dev tests (Evapco). Blockchain audits (Glitter, Funtoken). Contracts (Doxxlocker) Bridges: Built Algo-Sol bridge, USDC h) (4 bridge on ETH, Poly, Algo, Sol, Tron, Avax, Arb, Op & ZkEVM. (Glitter) C#: Thermal software (Evapco). Game development (Re3Studios). Client websites (BlueModus) **JSON**: Dynamically generated content (Re3 Studios), blogs (Glitter), and bridge data (Glitter) **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**



APIs: Bridge explorer API (Glitter). Blogs API (Funtoken)



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)



# Andrew T. Carl

### Experience (Cont.)

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# Principal Software Engineer

Glitter Finance | May 2022 – August 2023

Glitter is a blockchain bridge for the everyday user.

**Building Dev Team**: To grow the team, I reviewed over 220 candidates and conducted more than 60 interviews to fill ten developer positions. Finetuned hiring process with incrementing success.

Glitter Blockchain Bridge.

**Token Bridges**: I wrote and deployed TEAL contracts for Algorand-Solana bridge. I managed development of a USDC bridge to 8 blockchains and oversaw all frontend work. An EVM token bridge was also partially deployed.

**SDK and API**: I was the primary developer of the SDK for third party integrations, publishing packages to NPM. This SDK was also used in our internal code and API. Under the API was a node poller monitoring 10 blockchains in real-time.

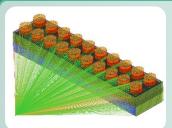
**Bridge Explorer**: Every bridge transaction was visible on our explorer. This aggregated the data of all 3 Glitter bridges, as well as providing live metrics.

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Glitter Bridge Explorer.

**Luster Protocol**: Luster protocol was a lending-borrowing platform that I codesigned but did not get funded. Luster maximized utilization for higher yields and implemented payment installments for lower borrowing interest. Advanced tokenomics modeling ensured stable token pricing.

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**: I upgraded the code from VBA to .Net WPF, deploying to Azure using MSSQL and Azure functions. This includes graphs, macros, and fully guaranteed results.

Acoustic Software: I created robust sound prediction tools that uses in-depth modeling to break down sound paths into locales, applies dampening, absorption, and atmospheric conditions, and aggregates the resulting effects. This can dynamically show a 3D rendering of cooling tower sound paths.

**Thermal Expertise**: Over 12 years, I helped design and test component improvements and test chambers, analyzing endless datasets to add to the thermal program. I authored a 90-page Master Guidelines covering all aspects of cooling tower and component design. I also co-authored two papers published by the Cooling Tower Institute.

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Comparisons A	nd Deee	mmone	atione

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

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

Skills - Proficient (cont

