Julián A Avar C

+1 (862) 465-3538 | julian-a-avar-c@proton.me | github.com/julian-a-avar-c | linkedin.com/in/julian-a-avar-c

WORK EXPERIENCE

IT, Fullstack Developer · World Arts Warehouse School of Music   *Warren, NJ* · Nov 2024 — Present
 – Created promotional website and authed portal using *Next.js, Tailwind*, and *Supabase*
 – Created business management system to handle students, teachers, payments, and reservations
 – Integrated *Stripe* for payment processing

IT, Fullstack & SCADA Developer · Processing & Automation Consultancy Solutions   *Brooklyn, NY* · Jun 2023 — Present
 – Developed proprietary SCADA Siemens-integrated real-time analytical engine for real-time data processing and analysis
 – Integrated *PostHog* for user data analysis, insights, and user behavior experiments
 – Integrated *Topline CRM* providing better data to sales department
 – Transitioned main website from *WordPress* to *Astro*, *React*, and *Tailwind*, cutting page load times from 7 seconds to under 1 second
 – Migrated email service from *cPanel* to *Microsoft 365 Exchange*, for business ease of use

Research Assistant · University of Illinois at Urbana-Champaign (UIUC)   *Champaign, IL* · Jan 2023 — Jun 2023
 Community Involvement: *American Association for Aerosol Research Member, Philosophy Club Member*
 – Translated cluster legacy system and codebase (atmospheric simulator) from *Fortran 90* to *Julia*

Systems Software Engineer · Frasca International   *Champaign, IL* · Apr 2022 — Dec 2022
 – Integrated aircraft simulation systems for various planes and helicopters using *MSVC C++* and *C#*
 – Manually implemented, decoded, and reverse-engineered various avionics networking protocols
 – Created GUI *WPF* tools for internal development and manufacturing usage

Backend, Unity Developer · John Deere   *Moline, IL* · Jan 2022 — Mar 2022
 – Introduced *TypeScript* into *Node.js* in-house content management system
 – Developed prototypes for simulation of hydraulic components for instructor use (*Unity & Godot*)
 – Built *Unity* templates and library foundations for future projects

EDUCATION

B.S. Computer Science · Western Governors University   *Millcreek, UT* · Jul 2025 — Present
 GPA: *3.0*

A.S. Computer Science · Full Sail University   *Winter Park, FL* · Nov 2020 — Nov 2023
 Community Involvement: *Coding Club Vice President*

PROJECTS

Spotify Clone
 – Music player and audio streaming app built with *Akka* and *Scala*. *React, Next.js, TypeScript*, and *Tailwind* on the frontend. Built on top of *Docker + Nix* for ease of reproducibility.

Over-Engineered Resume
 – Modern interactive resume using *React, Next, TypeScript*, and *Tailwind*. Integrated *NeonDB* and *Hasura* for *GraphQL* use, and implemented *REST*ful paths for saving resume configurations. Final PDF export done wiht typst for maximal visual performance.

SKILLS

Basics *Python, C++, JavaScript, TypeScript, C#, Java, Scala, Ruby, Julia, PHP, Bash, Regex, Git, REST, Jira*
Front *React, Astro, Next.js, Gulp, Rollup, Parcel, Vite, Tailwind, Material UI, Radix UI*
Back *Express, SocketIO, Nest, EffectTS, Django, Spring, Play!, Protobuf, Smithy4s, Postman, Swagger*
DB *SQL, SQLite, MySQL, PostgreSQL, Supabase, CockroachDB, NeonDB, NoSQL, MongoDB*
Infra *AWS, Jenkins, Docker, Kubernetes, Nix, Terraform, Pulumi, Besom, Heroku, Vercel, Azure, CircleCI*
Misc *Linux, MSVC, GCC, CMake, SCons, Boost, C++ STL, DTD, XSD, CVS, SVN, Maven, Gradle, NPM, Yarn, PNPM, GraphQL, Hasura, Ubuntu, OpenSUSE, NixOS, Vim, Godot, Unity*