

ELIA FRANZELLA

Software Developer

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SUMMARY

Software developer committed to designing and building modular, scalable and easy-to-maintain components and services with ~5 years of experience in developing distributed, cloud-native, event-driven back-end systems. Huge nerd that loves Vim and GNU/Linux and is invested in learning new tools and technologies as necessity arises.

SKILLS

Technologies: MySQL, PostgreSQL, MongoDB, Redis, Docker, Git, GNU/Linux, NestJS, RxJS, React, Qwik, Tailwind, RabbitMQ, BullMQ, Kafka, GraphQL, REST APIs, gRPC.

Languages: TypeScript, JavaScript, C/C++, Crystal, Ruby, Rust, Python, SQL, Bash, HTML5, CSS3.

EXPERIENCE

- 01/2022 - 01/2026 **Back-End Developer** Giglio.com
- Design and development of modern, technical back-end solutions within the microservice-based software ecosystem of GIGLIO.COM.
 - Developed an event-driven (BullMQ, Redis), multivariate, user-editable ranking system, based on products' Key Performance Indices (KPI) for custom sorting by relevance in the e-commerce.
 - Full back-end integration of the provider Atlas Search (MongoDB) for the e-commerce's semantic search tools.
 - Devised and developed a platform-agnostic (desktop, mobile), fully server-side routing application, complete with an anonymous tracking system intended for marketing campaigns.
 - Rescued – and extended with custom Bash scripts – a Linux CUPS printing system, using Nmap and ARP utilities to inspect and audit networks.
- Proficiencies: TypeScript, JavaScript, SQL, Bash, NestJS, RxJS, MySQL, MongoDB, Redis, RabbitMQ, BullMQ, GraphQL, REST APIs, gRPC, GNU/Linux, Docker, Git.*
- 07/2021 - 01/2022 **Back-End Developer** Manpower
- Development of services and applications for clients.
- Proficiencies: TypeScript, SQL, NestJS, RxJS, MySQL, Redis, REST APIs, gRPC, GNU/Linux, Docker, Git.*
- 04/2021 - 07/2021 **Internship – Back-End Developer** Manpower

PROJECTS

- Website **stateofneptune.com** github.com/stateofneptune/stateofneptune.com
State Of Neptune's official band website. Stack: Qwik, TypeScript, Tailwind, Vite, Cloudflare Pages.
- Library **Alea** github.com/ning3/alea
Utility library to work with most known probability distributions, written in the Crystal programming language. Features pseudo-random number generator (PRNG) implementations, high-level APIs for repeatable random sampling and cumulative distribution functions (CDF).
- Library **Talgene** github.com/ning3/talgene
Abstraction layer over genetic algorithm implementations, written in the Crystal programming language.

EDUCATION

- 02/2026 - ongoing **Google Cybersecurity Professional Certificate (ongoing)** Google
- 09/2018 - 08/2022 **Physics Bachelor's Degree (discontinued)** University of Palermo
- 09/2012 - 06/2018 **Scientific Diploma** Scientific high school B. Croce

LANGUAGES

English - B2, Italian - native