

Arthur Gamblin

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Valid Canadian IEC Work Visa (2 years)

Skills

- **Programming:** TypeScript, JavaScript, C, C++, HTML, CSS, SQL, Python, R, Kotlin
- **Tools:** React, Node.js, Next.js, NestJS, Express, Flask, Git, Docker, Kubernetes, RabbitMQ, Redis, Jest, Mocha, Cypress
- **Languages:** French (Native), English (Fluent), Spanish (Conversational)

Experience

Software Engineer, Ionis – Paris, FR Mar 2021 – Present

- Streamlined the scheduling and management for students and staff on 3 campuses by developing a unified planning platform composed of 3 back-end microservices (Express, Typescript) and a React frontend styled with ChakraUI
- Increased reliability by 35% by integrating a RabbitMQ message broker to handle mutations across microservices instead of standard REST calls
- Decreased response time by a 1-second average by implementing a Redis cache layer over a complex permission system managed by CASL, alleviating the permission micro-service
- Ensured a 99% service availability for the 4,500-student user base, with the system capable of handling 10,000+ users for future scalability by hosting the entire project on a Kubernetes cluster within Azure
- Implemented a sophisticated data validation system, bridging the client and various micro-services, utilizing class-transformer and class-validation tools through a centralized SDK

Software Engineer Intern, Masteos – Paris, FR Sept 2020 – Mar 2021

- Improved order processing by 15% by developing a user-friendly interface for construction material ordering through a React frontend connected to a GraphQL API, styled using Ant-Design
- Increased reliability by 20% in mandate processing by leveraging the PandaDoc API for e-signature workflows, ensuring mandates remained unalterable post-creation
- Achieved a 10% increase in client satisfaction rates by revamping the creation and management of quotes and invoices through design iterations with the UX team and leveraging serverless functions

Software Engineer Intern, Wavy – Paris, FR Apr 2019 – Aug 2019

- Achieved a 60% reduction in site setup time by pioneering the automation of server configurations using AWS API
- Improved billing processing times by 35% by transitioning the billing process to AWS Lambda, leveraging Puppeteer and html2pdf for optimal performances

Software Engineer Intern, Friarbiz – Villebon-sur-Yvette, FR Sept 2018 – Apr 2019

- Devised a user-friendly transition from regulatory constraints to material lists for Geostaff by developing a dynamic 2D representation tool that mirrors real-world installation scenarios, using an Angular frontend with Laravel
- Enhanced the tool's flexibility, leading to a 15% increase in user-specific customizations, by adapting the architecture to accommodate diverse product ranges and assembly techniques
- Improved order-to-delivery times by 20% through the integration of automated order placements and tailored pallet directives based on site needs

Software Engineer Intern, Carm2i – Gentilly, FR Oct 2017 – Dec 2017

- Streamlined the manipulation and export of data for a prominent investment company by refactoring a vital Microsoft Access application using VBA, identifying application pain points through iterations
- Improved application response time by 40% through overhauling legacy code and optimizing SQL queries

Education

Epitech – Paris, FR

Master of Information Technology

Sept 2021

Bachelor of Information Technology

Aug 2019

New York Technology and Media School – New York, U.S.

Study abroad, with focus in Fintech

Sept 2020