GIANLUCA PICCIRILLO

SOFTWARE DEVELOPER - SOFTWARE ARCHITECT - FOUNDER - BACHELORS ENGINEERING

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EXPERIENCE

Devpro (devpromedia.com)
Co-founder - 2022-present

- Pioneered the establishment of **Devpro**, a **Software Development Company**.

- Proactively identify and **cultivate** new business opportunities.

- **Collaborate** closely with **clients** to understand their unique business needs**,** ensuring the delivery of **tailored software solutions** to meet **requirements**.

- **Oversaw**, **architected**, **developed**, **tested, deployed** and **delivered** numerous **software solutions** such as:

  - A **multi-service REST API** for interacting with PBX cloud telephony systems, built within a **service-oriented, cloud-based architecture**. Leveraged a range of technologies, including **Azure compute**, **serverless**, **storage**, **security**, and **database** services, along with **GitHub Actions**, **TypeScript**, **Java**, **Spring**, and more.

  - **Web applications** featuring **user authentication**, **data** management, and user & organization **administration**, along with other diverse functionalities. Leveraged technologies including **NextJs**, **PostgreSQL**, **PrismaORM**, and more.

  - **Cloud-powered AI** call recording analyzer utilizing **asynchronous processing patterns** to ensure a smooth API experience. Leveraged **serverless, compute** and **database** services for scalability and efficiency.

  - Data **integrations** between different platforms.

  - Numerous websites, content management systems (**CMS**), and e-commerce applications utilizing technologies such as **Strapi**, **Stripe**, **Vercel**, and more.

Lattice Semiconductor
Software Developer - 2024

- Played a important role in contributing to the **DevOps infrastructure**.

- Utilized tools like **Docker**, **Python**, **GitHub Actions**, and **Jenkins** to develop **build tools**, **pipelines** and **workflows**.

- Contributed to the team's initiatives by actively developing **new solutions** and processes.

Intact Financial Corporation
Full Stack Developer - 2023

- Actively involved in crafting an **enterprise application** using **Spring**, **Angular**, **Jenkins**, **Oracle DB**, **Liquibase**, and **SQL**.

- Applied **Agile** development methodologies, ensuring collaborative and efficient project delivery.

SKILLS

Programming/Scripting languages

- Java
- Python
- Go
- Typescript
- Javascript
- C
- Rust
- Bash & Zsh
- OCaml
- Lua
- ARM ISA
- HTML & CSS

Systems, Platforms & Tools

- Github
- Git
- Linux
- MacOS
- PostgreSQL & MySQL
- Github Actions
- VSCode
- JetBrains IDEs
- NeoVim
- Docker
- Microsoft Azure
- Firebase
- Google Cloud
- SQL
- NoSQL
- Raspberry Pi

Libraries, Frameworks & Other

- Spring Framework
- Prisma
- Apollo
- NextJs
- ReactJs
- React Native
- OAuth2
- SeaORM
- Hibernate
- HTTP
- REST
- GraphQL
- Pytest
- JUnit
- TailwindCSS
- Material UI
- NextAuth/AuthJs

Concepts

- Software architecture
- Service-oriented architectures
- Application security
- Application layer networking
- Dev efficiency (CI/CD)
- Cloud deployment
- Application lifecycle management
- Software project management
- Agile Development
- Web service penetration testing fundamentals

CGI inc.

IAM Cybersecurity Intern - 2022

- Contributing to bolstering cybersecurity infrastructure, focusing on **IAM** technologies.
- Engaged in a **ethical hacking learning experience**.
- Successfully developing a **service offer** and a **proof of concept** for **automating IAM processes**.

Google Developer Student Club

Tech Lead - 2023-present

- Proving **guidance** and **mentorship** to club members, fostering a **collaborative learning environment**.
- **Leading** hands-on **projects**, **applying** full stack of development **skills** and leveraging emerging technologies.
- Establishing **connections** with **industry professionals** and **organizing guest speaker sessions** to expose members to real-words insights.

Voysis IP Solutions

Web Developer - 2023

- **Developed** and **deployed** a website utilizing **Vercel**, **NextJs**, **ReactJs**, and adeptly integrating **serverless** functions.

McGill University

Tomlinson Engagement Award for Mentoring - 2022

- **Teaching assistance** and **tutoring** tasks for **Digital Logic** (ECSE-222).

DDC NFT

Full Stack Blockchain Developer - 2022

- Full stack development and deployment with HostGator, **Vue.js** and **Nuxt.js**, **Solidity**, **ethers.js/web3.js**, **blockchain** technology.

🎓 EDUCATION

Software Engineering Co-Op
McGill University
2021-Present

Science Program
Marianopolis College
2019-2021

Relevant courses:

- Software systems
- Model-based programming
- Algorithms and Data Structures
- Operating systems
- Design Principles and Methods
- Programming Languages and Paradigms

- Algorithm Design
- Signals and Networks
- Requirements engineering
- Software Validation
- Parallel Computing

- Computer engineering courses: Electric Circuits, Digital Logic, Computer Organization.
- Mathematics courses: Calculus I,II & III, Discrete math, ODEs for engineers, Probability and statistics.

🎖️ PROJECTS

Mynav: 2024

- Developed a user friendly text-based user interface (**TUI**) **workspace and session manager**, aiming to allow for an easy view of all your workspaces and sessions in a **terminal environment**.
- github.com/GianlucaP106/mynav

Gotmux: 2024

- Developed a comprehensive **Go library** designed to interact with **Tmux**, communicating through the Tmux CLI and aiming to offer complete functionality for Tmux integration.
- github.com/GianlucaP106/gotmux

Mypass: 2024

- Developed a simple and user friendly **CLI password manager** written in **Rust**.
- Uses **encryption** to ensure a **safe password storage**.
- github.com/GianlucaP106/mypass

Flashify: 2023

- Developed a **SaaS** product focused on the creation of study sets from student notes or lecture material by **automating content extraction** and flashcard generation via **machine learning techniques**.
- Utilizing **NextJs**, **Java**, **Spring**, **GraphQL**, **Python** and **Azure** services to create a robust, responsive, and performant web application.

Booktire: 2022-2023

- Developed a **SaaS** product dedicated to fostering **connections** between mechanics, garage owners, and clients through an **inventive booking app** tailored for car repairs and tire changes.
- Utilizing **React Native**, **Java**, **Spring**, **GraphQL** and **Azure** services to create **full stack application**.

PharmaHacks: 2021

- **McGill Hackathon**: **Machine learning** models to predict the diagnosis of disease based on presence of bacteria in the gut microbiome.

PictoDocReader: 2022

McHacks McGill 2022

- A **python** utility to provide "ctrl-f" search functionality for images.
- **Won Best Education Hack** at McHacks 9, McGill University.
- Github: github.com/mattcab2002/PictoDocReader