Benoit Barthelet

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13, rue d'Alexandrie - 75002 Paris, France

- Strategic yet pragmatic thinker with deep technology background who excels at navigating the levels of complexity in defining and building software-based solutions – from conceptual architecture to detailed coding.
- Sustained track record in financial services solutions co-creation in capital market (exotic instruments, trading, risk, pricing modeling, trade execution workflow management) with major global institutions.
- Adept at quickly impacting trajectory of projects through informed diagnostics leveraging in-depth experience in solution design and optimization.
- Recognized thought leader in the open-source community as maintainer of **uvicorn** and contributor to a range of projects – from **asgi-ratelimit** to **FastAPI**. Hands-on experience in big-data database design, migration and integration, developed tools to perform migrations on async drivers.
- Expert in designing and implementing DevSecOps infrastructure in both public and private clouds.
- Expert in using agile approach to problem-solving by promoting customer-centric mindset tackling the organizational, process and technology dimensions of issues.
- Serve as force multiplier in software engineering and development shaping organizations through peer coaching and best practice dissemination.
- Equally adept and comfortable at operating as individual contributor and as team lead in complex environment dealing with challenging environment with a passion to solving intractable problems.

Product Development	Software Engineering	Enterprise Application
Business-Driven Co-Creation	Development	Data Architecture
API Architecture & Development	Cloud Migration, SaaS, AWS, GCP	Capital Market products and processes

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Experience

SFJ Technologies LLC — **Chief Architect and Head of Engineering** — Sep 2018 Present

Fintech generating signals to measure and detect bankruptcy and fraud risks applied to portfolio management. Scaled up of technology environment by deploying enterprise-strength operation best practices and microservice-based architecture.

- Built pipelines for converting datasets of accounting statements into actionable scores
- Built API for frontend developers (FastAPI / Postgresql / arq)
- Built API consumer clients, mainly Excel User Defined Functions
- Built and maintain our backend infrastucture, AWS based, full CI/CD integration on Gitlab, and IAC powered by Terraform

Sullivan Cloud — **Chief Solution Architect** — Sep 2017 Present

Leading advisory and system integrator providing digital transformation of legacy workflow, automation and data environments. Design and developed cloud-based migration tools and methodology to port Windows-based applications leveraging GCP native solutions.

- Built several tools to enhance Gsuite, mostly App Engine based
- Built time-saving tools for migrating clients to GSuite
- Migrated clients and reviewed their cloud infrastructure in a broad range of industries from manufacturing to professional services

Generali Investments Europe − **Portfolio Manager** − Dec 2010 Sep 2017

Actively managed multibillion portfolio of derivative-based assets.

- Managed non-traditional assets and created insurance-specific investment strategies with a focus on European fixed income instruments.
- Developed pricing and risk modelling tools on derivatives portfolios and other illiquid asset classes.
- Automated end-to-end processes and supporting technologies to foster opportunistic value creation.
- Drove integration of French activities within newly creating pan-European operations.

Lazard Freres Gestion − **Portfolio Manager** − Jun 2005 Dec 2010

Recruited by asset management division to create new structured product and Fund of Hedge Fund investment options for ultra-high-net worth clientele

- As Product Manager, defined service offering and marketing strategy including go-to-market approach, service definition and pricing
- Assumed dual operational responsibility as principal architect for the technology software and IT platforms supporting the lifecycle delivery of the products

SGAM Alternative Investments − **Fund derivatives trader** − Mar 2001 Jun 2005

Created new market to trade hedge-fund derivatives with ultra-competitive pricing model based on advanced principal component analysis leading to first billion-dollar European capital guaranteed mutual fund transaction. Architected the integration of research and pricing experts output into an end-to-end solution.

- Personally managed €1B book of highly illiquid fund derivatives
- Developed pricing and risk assessment models and liaised with research, operation and IT to create agile deal management solutions
- Developed integration platform to automate workflow across all business and technology domains (sales, middle/backoffice, IT)

Education and certifications

Ecole Supérieure de Commerce de Paris MSc Finance, Majored in Derivatives Trading

Thesis on the pricing of PCS options (Property-Claim Services)
and its impact on the reinsurance natural disasters markets

GitLab Certified Associate: GitLab Certified Associate

Associate Google Cloud: Associate Google Cloud

OSCP: Offensive Security

Certified Professional (OS-101-035377)

Skills and personal interests

python: python expert, deep understanding of asyncio

javascript: extensive use of javascript, mainly through React

C#: basic knowledge, Excel-DNA library developing several Excel add-ins

Debian: using it daily since Potato

Docker: coding pretty much eveything in containers, some experience with Podman

Gitlab: extensive use of this particular CI

Postgresql: advanced user

Open-source sofware: developer of aiosqlembic, maintainer of uvicorn

- **aiosqlembic** is a database migration tool powered by **asyncpg** and **aiosql** and inspired by **goose**
- **uvicorn** is a lightning-fast ASGI server, built on **uvloop** and **httptools**.

Human Languages:

- French (native speaker)
- English (fluent)
- Chinese (rookie,)

Ultratrail

Debugging is twice as hard as writing the code in the first place.
So if you're as clever as you can be when you write it,
how will you ever debug it? – Brian Kernighan

Inspired by **pandoc_resume**