GUILLAUME HUMBERT

Software Engineer

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Singapore

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PROFILE

14-year experienced C++, Python & Java developer, mostly in the finance industry.

Demonstrated success in delivering large-scale projects.

Experienced in leading teams of developers.

EDUCATION

Master's Degree, Computer Science

University of Paris X, Nanterre, France, 2009-2011

Bachelor's Degree, Computer Science

University of Paris X, Nanterre, France, 2006-2009

EXPERTISE

- C++, Python, Java
- Full Stack Software Engineering
- Performance Tuning
- Software Architecture
- Experienced in Working with Trading Desks
- Web Design (this resume is made with HTML & CSS)

ACHIEVEMENTS

Filed a US patent (16/361,324), while working at JPMorgan Chase

Invented a way to secure confidential data in non-trusted environments (e.g. public cloud) while retaining characteristics of the data that can be used for analytics.

EXPERIENCE

Executive Director, Software Engineer

Goldman Sachs / Singapore / 2020 - Present

Project: SecDB, a cross business risk & PnL platform

- Technology stack: mostly C++, a bit of Java.
- Develop new features for SecDB in-house database, called TDMS, which is a highly performant object database built in C++.
- Enhance the core of the database to perform authorization, which is currently done by client applications.
- Build an external service to perform authorization, which has extremely low latency and memory footprint.

Vice President, Software Engineer

JPMorgan Chase / Singapore / 2014 - 2020

Project: Athena, a cross business risk & PnL platform

- Technology stack: mix of Python and C++.
- Business: Rates / Fixed Income and Derivatives.
- Develop features specific to Asian trading desks, and provide support.
- Coordinate between various teams (product control, middle office).
- Recognized as subject matter expert in Asia; part of the technical leadership team.
- Officially given the title of "Expert Engineer", which distinguishes the top 1.5% technologists in the firm.

Software Engineer

Triquesta Commodity Finance / Singapore / 2012 - 2014

Project: commodities risk management system, sold to global banks

- Led a team of developers, reported to the CEO, and to client representatives.
- Fully involved in development (Java), testing, release and production support.
- Participated as the technical head during pre-sales meetings.

Production Engineer

Crédit Agricole CIB / Singapore / 2011 - 2012

- Level 2 production support, for internal CIB applications.
- Automated most of manual production procedures and deployment, mostly in Bash, Perl, Python.
- Acquired communication, negotiation / compromise skills, sense of urgency, experience on production monitoring technologies and best practices.

Software Engineer

Société Nouvelle Electric Flux / France / 2009 - 2011

- Projects: customer relationship management, inventory management.
- Involved in development, testing, and production release.