Antoine Toulme

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I am a leader with a strong track record of delivering consistent, ROI driven business value.
I produce powerful software architectures, from requirements to production.
I enjoy managing large agile multinational teams.

Experience

Blockchain Protocol Engineer, ConsenSys   2017-Present

I established and managed a team developing and maintaining blockchain products, from Java libraries and privacy solutions to Ethereum clients, working closely with the delivery teams and engaging in early PoC and support conversations. Projects include:

- Canto, a scalability project allowing to reuse and enhance Ethereum clients as peer-to-peer nodes to run additional sidechains in exchange for rewards. Canto is an active collaboration with Whiteblock.
- Cava, a set of libraries to work extensively with Ethereum. Cava implements Ethereum primitives, such as RLP, Merkle trees, RLPx and devp2p discovery.
- Mana, an Ethereum client written in Erlang/Elixir. Mana is compatible with mainnet. This project is a collaboration with POA Network and Compound.finance.
- Quorum by ConsenSys, a curated set of projects to deploy safely Quorum networks. This set is tested with Constellation, Tessera and Crux, allowing customers to deploy their specific private enclave.
- Orion, a privacy layer for enterprise Ethereum. Orion is a Java implementation of Constellation, allowing Quorum networks to transfer private data to specific participants in private transactions.
- Pantheon, a Java Ethereum client. I particularly helped with the inception, architecture and best practices to help the project get afoot.

Engineering Manager, Acer Cloud Technology US   2016-2017

I ran from inception to delivery a complete cloud product offering for Acer IoT devices.

- I helped define and proof an innovative micro-services architecture, able to scale based on traffic metrics automatically on demand.
- We defined and implemented core IoT services, based on MQTT, to implement data tracking, relaying commands and authentication.
- I supervised and load tested our big data platform based on Cassandra and Apache Spark.
- I worked closely with the hardware team, testing their devices, debugging and supporting their RTOS platform.
- I architected and defined the base framework upon which we implemented all our Java and Scala based micro-services, as well as our Docker images, their base layer and scripts.
- I designed and automated our build system for continuous delivery, along with system tests, providing health metrics across our four environments (dev, staging, RC, prod) to management through time series charts.
- I ran a team of 8 senior developers, hired 3 developers into the company, including my direct replacement.
- I worked closely with the team in Taipei, visiting Acer headquarters to discuss go-to-market with the project teams.

Chief Architect, co-founder at GOAPPO, Inc.   2015-2017

I invented and brought to market a new way to build powerful business applications, removing the cost of dedicated development and traditional vendor lock-in. Architected and implemented a complete software suite encompassing a native client, a multi-tenant application development environment and a revolutionary, modern, scalable runtime.

- I implemented on the vision of dynamic case management a complete platform to deliver bespoke business applications.
- I participated in all phases of customer relationships, delivering functionality and support.

Chief Architect at Intalio, Inc.   2006-2015

I co-invented and architected IntaliolCreate, a new generation rapid application development platform. It radically changes the landscape of modern business applications development by focusing on collaborative experiences of people in unstructured environments, while removing the unnecessary burden of typical hard coded, inflexible logic.

- I implemented and lead the maintenance of a BPMN editor, open sourced to the Eclipse Foundation.
- I supported the product offering through the community and support sites.
- I participated in product management and customer calls to identify requirements.
- I managed developers across China, Argentina, India and Singapore.

Education

MS Computer Science, Université de Technologie de Troyes, France   **2001-2006**

Software Integration, Knowledge Management, Organizations Science.

Humboldt State University, California   **2004**

Computer Science exchange program.

Skills

Developer

I have contributed to many open source projects with the Eclipse Foundation, the Apache Software Foundation and the Ethereum movement. I develop in Java and JVM languages, Javascript, Go or Ruby, to name a few.

Application Architect

I apply my knowledge and experience developing with these systems to properly approach, scope and estimate implementation efforts. I lead requirement gathering efforts and can work closely with product management to create an architecture. I own roadmaps and am able to apply change sets using agile methods to maximize return on investment.

Engineering Manager

I manage actively teams through regular team meetings and 1:1. I have managed all aspects of development teams, onshore and offshore, with a focus on recruitment. I have mentored extensively developers going through personal challenges. I manage up effectively, always aiming for alignment and maximum collaboration.

Operations

I communicate best practices, supported by a code pipeline and tooling. I deploy web dashboards based on the ELK and the Beats stack to monitor and analyze data.
I implement SLAs, alerts and procedures conforming to our KPIs and uptime requirements.