

# Rayman Keung

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## SUMMARY

- **Innovative developer** offering 15 years of experience in the full software development lifecycle
- **Cross-functional** in areas of frontend, backend, testing, and devops
- **Known for enforcing best engineering practices** and promoting high standards for development, testing, and security

## SKILLS AND ACCOMPLISHMENTS

- **Programming Languages:** Python | Java | Go | Clojurescript | Javascript | Typescript | Bash | C++ | HTML5 | CSS
- **Technologies:** Kubernetes | AWS | Microservices | SQL | MongoDB | Hadoop | Kafka | BigQuery
- **Frameworks:** Django | Flask | React | Spring Boot | Angular
- **Accomplishment 1:** Launched 2 cloud apps for SAP
- **Accomplishment 2:** Developed the early tech for Fancy.com as cofounder resulting in Series A \$6Million investment

## WORK EXPERIENCE

### **Senior Software Engineer**

**TriOptima (osttra.com)**, New York NY

07/2021- 05/2024

Leading Provider of Post Trade Workflows

- Performed development, operation support, and customer support to Acadiasoft's Initial Margin Exposure Manager
- IMEM provides a risk mitigation and reconciliation service for bilateral OTC derivatives, post-trade. The service helps the global financial industry in reducing credit risk and adhering to legal requirements
- Scaled out processing of 21 million rows of trade sensitivities per day

### **Senior Software Engineer**

**Columbia University**, New York NY

07/2019 - 07/2021

- Transforming Columbia University's Student Information Systems legacy system to a modern microservices architecture using Python 3, Django, DRF, Kafka, AWS Lambda, SQL
- Used Viewflow Pro to create a course/program proposal microservice
- Lead many epics to completion: designing, code reviewing, and releasing
- Mentored software engineers, raising the bar of engineering excellence across the team

### **Senior Software Engineer**

**SAP**, New York NY

02/2016 - 05/2019

- Launched Commerce Insights on YaaS (Hybris as a service) by migrating the Jirafe web analytics system from a monolith to microservices. Went live in < 8 months with customers.
- Launched an eCommerce browse and cart abandonment dashboard / reporting app by developing an API using GraphQL, Java, Spring Boot 2, and Apache Druid

**Senior Software Engineer****Jirafe**, New York NY

01/2015 - 02/2016

Jirafe was a startup building web analytics for ecommerce.

- Developed Jirafe's integration of Shopify webhooks, using Python, allowing Shopify customers to get their data from Jirafe
- Added new reporting metrics to Jirafe's reporting web app by writing REST APIs using MySQL, Flask, and Python

**Co-founder, Senior Software Engineer, DevOps Engineer****Fancy**, New York NY

05/2009 - 11/2014

Fancy is a startup building curated luxury goods marketplace

- Developed web scrapers that collect product images and specs from online stores using Python
- Made Fancy a highly scalable web application by optimizing MySQL queries, indexes, and settings
- Developed REST APIs including OAuth2 authorization using Python and Django, powering Fancy's mobile apps
- Developed the early Android app using Java
- Implemented search features using Sphinx
- Administrator for company's AWS EC2 cloud, MySQL, DNS, monitoring, and alert system
- Integrated Facebook and Twitter API, adding social actions to site
- Integrated PayPal website payments pro and eBay APIs, adding buying and selling actions to site

**Software Engineer****Inform Technologies**, New York NY

01/2006 - 05/2009

Inform Technologies was a startup developing search technology using NLP

- Developed categorizer and entity extraction SOAP web services using C# .NET 2.0 framework and SQL Server, helping publishers increase visitor engagement

**Software Engineer****Advanced Acoustic Concepts (aactech.com)**, Hauppauge NY

09/2003 - 12/2005

Leading Provider of Undersea Warfare Solutions

- Developed real-time digital signal processing modules in C++ for SIM/STIM a powerful sonar simulator for tactical naval simulators
- Developed a logging component for learning management systems using the Java Accessibility API. It records user actions (mouse clicks/keyboard strokes) on Java applications. It can be later played back for analysis.

**EDUCATION**

M.S. Computer Engineering, New York University Tandon School of Engineering, New York NY

B.E. Electrical Engineering, State University of New York at Stony Brook, Stony Brook NY