

# Jay Vercellone

Versatile software engineer with a strong academic background, broad cross-domain experience, and a consistent track record of owning complex responsibilities while growing into larger technical and leadership challenges.

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## EXPERIENCE

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### Pipedream

Software Engineer

Aug 2022 - Present

Engineering | Adoption/Acquisition

My journey at Pipedream began as a [part-time contributor](#) to their main [open-source project](#). Impressed by the compelling product and our effective collaboration, I transitioned to a full-time role.

### Altitude-Sports

[Website](#)

Staff Software Engineer

Sep 2020 - Jul 2022

Engineering

As a Staff Software Engineer, I held a leadership role within the company, including being the head of the Platform team. In this capacity, my primary responsibilities included leading the development and configuration of essential tools and company-wide services, such as Temporal, Prefect, and Kubernetes. I actively championed best practices and knowledge sharing, delivering tech talks and courses to promote a culture of continuous improvement.

### Amazon Web Services

[Website](#)

Software Development Engineer

Oct 2019 - Sep 2020

Databases | ElastiCache

My contributions within the ElastiCache team were specifically focused on the [MemoryDB](#) project. The primary objective of the product is to ensure the data persistence of Redis clusters managed by ElastiCache. As part of this initiative, I participated in the design and implementation of a [leader/follower election](#) mechanism based on the [Raft](#) protocol.

Software Development Engineer

Jan 2018 - Oct 2019

Payments | Non-Payment Suspension

My journey at Amazon started in the NPS (Non-Payment Suspension) team, which was within the AWS Commerce Platform organization. This organization was responsible for taking care of the commercial operations of AWS, including billing calculations, invoicing customers, collecting payments, etc. Our NPS team in particular was responsible for suspending/terminating AWS accounts that accumulated several unpaid invoices.

### Intel

[Website](#)

Software Engineer

Aug 2015 - Apr 2016

Security | Data eXchange Layer

The Intel division that I joined was the *Intel Security Group*, which was a rebranding of the previously acquired [McAfee](#). The main goal of this division was to provide security solutions to enterprise customers.

### Vates

[Website](#)

Software Engineer

Sep 2014 - Apr 2015

Arris account

During this time, I worked exclusively for the [Arris](#) account as a contractor. The goal of the project I joined was to refactor the firmware that went into Arris's [set-top boxes](#). In particular, the goal was to implement an abstract interface (which was previously defined for us) at the firmware level, so that other teams could port application-level software to any equipment that used such firmware effortlessly.

## ClariPhy (now Marvell)

[Website](#)

### Lead Software Engineer

Dec 2013 - Sep 2014

Embedded Systems R&D | Software Development

I joined the R&D area due to my interest in software engineering. In particular, I joined one of the teams that was working on a [muxponder](#) to eventually commercialize at scale. The project was constantly delayed due to a lack of guidance in the software area, mostly because the staff at the company did not specialize in software development per se.

### Senior Engineer (B)

Aug 2012 - Dec 2013

RTL Design | Digital Signal Processor

As a digital design engineer, my responsibilities involved analyzing predefined models of optical communication modules written in C++ and translate them into an [HDL](#) (in our case, [Verilog](#) was the language of choice) so that these modules could then be realized into an actual electronic system.

## Hewlett-Packard

[Website](#)

### Security Consultant

Apr 2010 - Aug 2012

Global Information Services | Leveraged Accounts (Central US)

As a security consultant on the Leveraged Accounts team, I was responsible for processing incoming client requests to grant/revoke access all the systems that HP managed on their behalf. These systems included UNIX-based servers (e.g. [Solaris](#), [HP-UX](#), [RHEL](#), etc.), [Microsoft Active Directory](#) (i.e. Wintel), and several internal/proprietary systems individual to each client including car rental management systems, travel reservation systems, etc.

## EDUCATION

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### Academic

#### Computer Engineering

Mar 2004 - Mar 2012

Universidad Nacional de Cordoba | MSc | [Program](#)

#### Business Administration

Mar 2011 - Sep 2012

Universidad Empresarial Siglo 21 | Degree | [Program](#)

#### Business Administration

Mar 2013 - Dec 2014

Universidad Empresarial Siglo 21 | MBA | [Program](#)

#### Digital Marketing

Mar 2015 - Dec 2015

Universidad Nacional de Cordoba | Degree | [Program](#)

## Courses

### Certifications

#### Certified Kubernetes Application Developer (CKAD)

Kubernetes | Issued May 2021 | Expires May 2024 | [Certificate](#)

### Courses and Specializations

#### Algorithms Specialization

Stanford University | May 2020 | [Certificate](#)

#### Functional Programming in Scala

École Polytechnique Fédérale de Lausanne (EPFL) | Dec 2018 | [Certificate](#)

#### Deep Learning

DeepLearning.AI | May 2020 | [Certificate](#)

#### Machine Learning on Google Cloud

Google | Oct 2018 | [Certificate](#)

#### Data Science

Johns Hopkins University | Jul 2018 | [Certificate](#)

## OPEN SOURCE PROJECTS

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### Authored

#### Shopify Terraform provider

A Terraform provider originally created to manage Shopify webhooks. The project was forked from an unmaintained one ([edahlseng/terraform-provider-shopify](#)), improved and made production-ready during my tenure at [Altitude-Sports](#).

#### Salesforce Webhooks

The purpose of this package is to provide a convenient interface to the Salesforce API in order to create or delete webhooks in the Salesforce platform. It offers a simple interface to create basic webhooks for “created”, “updated” or “deleted” events on any **SObject** type (although such types must be *triggerable*, as specified by an **SObject's metadata**)

I created this project from scratch to develop [Salesforce components](#) for [Pipedream](#). It allows these components from receiving Salesforce events instantaneously by leveraging the Apex platform to execute code on Salesforce that reacts to events and sends them over to a specified endpoint via an HTTP POST request.