Costa Shapiro:

tech lead

business software developer

end-to-end IT owner

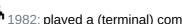friendly

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CostaShapiro.com

1982: played a (terminal) computer game @ dad's work

1986: found the K&R "The C Programming Language," started writing code (in a notebook... with a pencil) @ home

1987: got a programmable calculator, programmed some programs @ school (sneaking, unapproved)

1988: experienced a Personal Computer (XT) with diskettes, and DOS, and games, and everything @ home

1989: was educated in computer programming (BASIC...) @ middle school

1991: studied at the "Automatic Data Processing" extended programme (later on, graduated cum laude) @ high school

1992: got a paid contract job (with a math prof) of implementing an educational integrated system for simulation and control of a robotic manipulator (later on, completed, had little users) @ Center for Promotion of Learning and Teaching

1994: studied at the Computer Science department for a B.A. (later on, graduated cum laude) @ Institute of Technology

1995: worked (as a contractor) at a micro-satellite project, programming many parts of the system @ Space Research Institute

1997: developed parts of internet business app suite (client side) @ NetManage (a subcontractor of Microsoft)

1998: started working as a teaching assistant at the Computer Science and then, also External Studies departments @ Institute of Technology

1999: studied at the Computer Science department for a M.Sc. (later on, graduated cum laude: a work in Software Engineering, of extending Java with a language construct for parallel and distributed programming) @ Institute of Technology

2000: developed "plugins" of Apache HTTP server @ Extent, a small ISP software company

2001: developed and integrated low-level and other software and firmware modules within communication device projects @ Qualcomm, a leading communication R&D company

2003: worked (as a software engineer) in a CPU CAD project analysing power supply and consumption @ Intel, a leading hardware R&D company

2005: founded a web-based content rating and recommendation service project (later on, unsuccessful) @ Everate, a start-up company

2006: got a Mac (Book Pro) and streamlined personal software user's and developer's environment @ home

2007: implemented and integrated modules of (big data) customer-generated-media system for market analysts as a software architect @ BuzzMetrics (later, the Nielsen Online division)

2008: got acquainted with the Ruby programming language and reconnected with the good web app and OSS development community @ the internet

2010: worked (as a senior) on a credit card payment security system @ RSA, the security division of EMC (later, Dell EMC)

2011: led, developed, integrated and consulted multiple start-up company projects (web and mobile app software, end-to-end, mostly), working with international clients, subcontractors, etc, with some success stories @ Astrails, a boutique consulting company

2012: experienced "digital nomad" lifestyle, working remotely from quite a few places @ the world

2015: led, developed, integrated and somewhat open-sourced the server-side media processing software of a video production app system (as a back-end team lead) @ Showbox, a start-up company (later, unsuccessful)

2017: led, developed, integrated and researched the server-side real-time and time-series physiological analysis software for elderly healthcare management system (as a back-end team, regulated security and system architecture lead) @ Owlytics, a start-up company (later, acquired by some other company)

2018: got very well acquainted with Docker and "containerized" software delivery and "orchestration", with good OSS development community support @ the internet

2019: started the individual "self server" platform project, combining the best practices, proven paradigms and popular technologies, developing "primitive" (micro) components, for "fast-forward" software development, small-scale deployment and person2person (decentralized) networking @ home

2020: went back to leading, developing, integrating and consulting start-up company projects (web and commodity-UI software, end-to-end, mostly) @ costa works, my individual consulting enterprise

2024: looking for all kinds of good opportunities @ ???

Knowledge / Stack (vertical axis)

Relevance / Motivation (horizontal axis)

technical leadership *5+ years*
and technology ownership

commodity UI integration (G/Office, Kibana, Jupyter, etc) *3+ years*

native mobile client-side *< a year*

React.JS *< a year*

Elm for less JS *< a year*

JavaScript++ for *5+ years*
both sides of web dev

software architecture, primitive (micro) components (services) and network protocols *5+ years*

finance & security system integration *1+ years*

PHP *< a year*

Java, monolithic and legacy *5+ years*
systems, also, desktop apps

.NET *< a year*

Ruby for business logic (Rails), *5+ years*
speccing, integration and scripting

Python for applied math, statistical *3+ years*
analysis and machine learning (TF)

Erlang / Elixir for robust concurrency *1+ years*

Scala, Clojure, Haskell for special expressiveness *< a year*

SQL-based storage for any *5+ years*
relational or smaller-scale data

Non-SQL (document index, event streaming, media storage) *5+ years*
for less structured, larger-scale (big) data, time series etc

parallel and distributed, also, decentralized system programming *5+ years*

Rust for optimised components *1+ years*

Golang for optimised components *1+ years*

Docker, K8s for *5+ years*
server side deployment

Cloud for rain *5+ years*

C/C++ for legacy, low-level, *5+ years*
real-time and embedded

Bash for comfort, configuration *5+ years*
and automation scripting

TDD / BDD for speccing and testing, and *5+ years*
also, documenting alongside development

teaching, fostering and mentorship, code reviews, dev process maintenance *5+ years*

open-source software and dev community communication *5+ years*

security advisory and compliance leadership *1+ years*

UI/UX and information systems analysis *3+ years*

end-to-end IT production responsibility *5+ years*

product management *1+ years*

business management *1+ years*