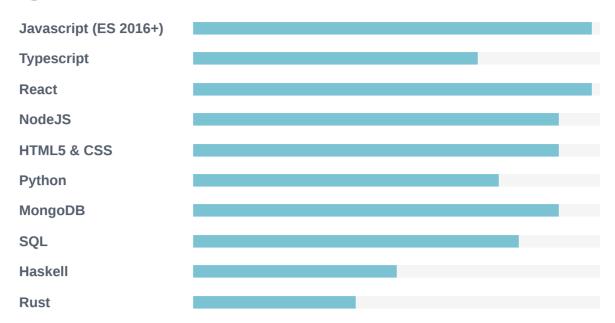


Valentin is a senior Full Stack Developer and Software Architect with 9+ years of web development experience. Most recently he's worked for various Silicon Valley startups specializing in JavaScript, React, NodeJS and Python. His past experience also includes roles as a Java and C++ engineer at small and large companies including Amazon. He has degrees in Computer Science and Mathematics from the University of Washington.

SKILLS & PROFICIENCY



WORK EXPERIENCE

Full Stack Developer

2021-2022

Agnostiq, Toronto (via Toptal)

Workflow Orchestration for Heterogenous Computing (Covalent)

• Built the React front end for a cloud-computing dashboard with an interactive, real-time workflow visualization of tasks hierarchy. Used Socket.IO, Redux Toolkit, and React Flow for interactive workflow graph diagrams.

- Developed a Node.js back end for the dashboard and worked on the Python back-end, mainly consuming Python APIs in a microservices architecture.
- · Worked with a team of physicists, mathematicians and computer scientists on defining requirements and designing architecture.

Architect | Tech Lead | Full-stack Developer Fiddler, Palo Alto, CA

2018-2021

ML Model Monitoring and Model Performance Management

- Built the front end of a novel AI explainability platform for ML model management, handling performance, alerts, drift detection, and fairness.
- Developed the front-end from the POC version, to MVP, to production in React Redux, MongoDB, and SQL.
- · Served as the technical lead for the front-end team and as a software architect as the
- · Helped architect and develop the company's back-end API in Node.js and Python with
- Learned a lot about machine learning and data science on the job, although those areas stopped being my primary responsibility once the company grew.

Full Stack Developer

Intro, San Francisco, CA

2015-2016

Professional social graph startup.

- Developed the web front-end for a professional networking service—search results for various categories, filtering, profile pages, and social network sign-ins.
- · Collaborated on a Python back-end working on an API implementation, query-parsing, and OAuth.
- Worked on MongoDB data modeling and aggregation queries.

Software Developer | Architect

2009-2013

MIRACL, Sofia / London

Authentication solutions and elliptic curve cryptography startup.

- identification and management system.
- · Designed and developed PrivateSky-a secure end-to-end encrypted messaging service. Payloads are encrypted and deciphered only on the client (browser) and username/password authentication is replaced by a M-PIN-based SSO server.
- Implemented various clients and SSO servers using JavaScript, MIRACL SDK (ellipticcurve cryptography), HTML5 web workers, Node.js, and MongoDB.

Java Developer

2006-2009

Medio Systems, Seattle, WA

- Worked on the development of a scalable log-aggregation and reporting service using Java, MapReduce, and Oracle.
- · Worked on a local search prototype for mobile: worked on local business source aggregation, results ranking, and local query parsing using Java.
- · Contributed to the development of a universal search aggregator: worked on the results ranking system and search extensions using Java, RESTful, and SOAP-based web services.

Software Engineer

2002-2005

Amazon, Seattle, WA

C++ and Java backend engineer at the availability and product ontology teams.

- · Worked on an experimental graph-based product ontology and a metadata processing system in Java.
- Worked as part of a team that was responsible for the design and development of very high-availability and high-throughput services for product price and availability data.
- Worked on problems of scalability, redundancy, and data propagation. Developed multi-threaded servers (C++, TCP/IP, Linux) and various caching and data partitioning systems. Implemented incremental data update solutions (C++, PL/SQL).
- Supported and evolved critical high performance routing middleware servers developed in C++.

Handled pager duty for engineering support of business-critical services.

Developer Intern Microsoft, Redmond, WA summer 2001

Internship with the .NET team.

- Completed two projects involving the design and development of extensions for Visual Studio.
- Developed IDE extensions in C# and Visual Basic to deal with the automatic conversion of legacy code.
- Took courses and learned engineering processes as part of the .NET team.



Pantry - A recipe, inventory, product and sales management system for small food preparation businesses.

Cella Game of Life Similation - Cella is an engine for exploring Conway's Game of Life and other cellular automata written in JavaScript using HTML5 canvas.



Alias Annotations for Program Understanding

Craig Chambers, Jonathan Aldrich, Valentin Kostadinov Presented at OOPSLA 2002



BSc in Computer Science University of Washington, Seattle

1998 - 2002

• Research Assistant - programming languages and ownership types

- Teaching Assistant C++ and Java courses Minors in Mathematics and Philosophy

Valentin Kostadinov Full Stack Developer

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LANGUAGES

English (Professional) **Bulgarian** (Native)

INTERESTS

Home schooling

Pure functional languages