

# Peter Jakobsen

## Software Programmer & Systems Architect

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7 Letchworth Road, Ottawa, Ontario, Canada

**Preferred Languages:** Python , R!, Awk

**Other Skills:** C, C++, Java, Spring, JavaScript, React, HTML, CSS, Unix, Git, Subversion, SQL, PostgreSQL, MongoDB, GraphQL, Stata, Matlab, Pandas. Good knowledge of DevOps and software release management. Enhanced Security Clearance

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### Summary

20 years of experience as a full stack software developer, systems architect, and research analyst. Strong background data driven research and statistical computing. Proven experience in product development & innovation in startup environments.

Career Highlight: Working closely with TEDTalks to roll out a crowdsourced translation and subtitling platform, and scaling it to billions of viewers. This platform had a deep impact on the worldwide popularity of TED Talks.

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### Experience

#### QuantGarage Inc. / Consultant, Architect and Software Developer

2012 - PROGRAMMER, OTTAWA

Consulting clients included Treasury Board, Statistics Canada, The City of Ottawa, Canadian International Development Platform, Econolynx International. I was a principal architect for the Canadian Open Data Portal, where I was responsible for Extract, Transform, and Load operations and data auditing of billions of records from across all federal departments. Lately I have focussed on building custom Shopify applications using GraphQL, Python, and Javascript.

#### DotSUB LLC. / Director of Technology

2008 - 2011, NEW YORK CITY

A startup company specializing in subtitle technology and crowdsourcing of translations. Responsible for building a team and implementing a full web based software stack using Java Spring & PostgreSQL. Clients included the US Military, TEDTalks, and many Fortune 500 Companies.

#### Espial Inc. / Software Developer

2008 - 2011, OTTAWA

Worked on embedded software for IPTV set top boxes and remote controllers. Javascript and C. Help design backend software for video streaming services.

#### Econolynx International / Database Programmer

2003 - 2006, OTTAWA

A consulting firm specializing in international development. I worked with Professor of Economics Keith A.J. Hay on several projects using international development & trade data. Wrote custom reporting solutions in python.

### **ePals Classroom Exchange / Technology Architect & Programmer**

2001 - 2003, OTTAWA

Team leader. Migrated product stack from Perl to J2EE. Work closely with IBM & Blackboard to develop eLearning platforms.

### **Fujitsu Canada / Software Developer**

1998 - 2001, OTTAWA

Programmer and Systems Analyst; assisted with the building of the core rating engine for calculating costs and prices across all Canada Post mail services. One of the first Java Enterprise platforms in North America.

### **Webcon Carleton / Researcher**

1997, OTTAWA

A student led project at the Carleton University School of Computer Science to build an interactive online course in Economics. Flash, HTML, and Javascript. One of the very first interactive eLearning projects in the world.

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## **Education**

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### **Algonquin College / Enterprise Computing Certificate**

1998, OTTAWA

A year of intensive study of database management and software development. Graduated with Distinction

### **Carleton University / B.A. Economics**

1993 - 1996, OTTAWA

Graduated with Distinction. President of Economics Society. Electives in Statistics, Math, and Computer Science

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## **Etcetera**

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Enhanced Federal Security Clearance  
Member of the ACM (Association for Computing Machinery)  
& Canadian Association of Business Economists.  
Open Source Python contributor since 2010  
Certified Tennis Instructor & Tennis Enthusiast  
Dual citizen of Denmark & Canada (EU Passport).  
Bilingual in English and Danish