Barnaby James

bajames@gmail.com | LinkedIn

Education

University of Toronto, BSc - Honours Physics

• Specialization in Quantum Field Theory

Skills

- Managing a team of 30+ engineers
- Developing Natural language voice agents
- Ranking photos by quality and topicality
- Statistical pattern recognition, OCR
- Android application and platform development on phones / tablet / wearables
- Experience building scalable indexing and analysis pipelines with MapReduce in Go / C++ / Sawzall
- Extensive development / production oncall experience for large scale distributed services
- Extensive experience with engineering hiring and management
- Languages C++, Java, Go, JavaScript, Sawzall
- Due diligence for acquisitions

Experience

Google - Senior Staff Software Engineer / Tech Lead Manager

- September 2007 Present (9 years 2 months)
- Tech Lead Manager Managing a team of O(30) engineers
- Google Assistant natural language voice assistant
 - TLM Assistant 3P Developer Platform (Actions on Google)
 - TLM <u>Smart Home</u> / <u>IFTTT Integration</u>
 - TLM for New Device Integrations / Android Auto Voice
 - 3P Integrations (<u>Messaging</u>, OpenTable, Nest, Uber, <u>Android APIs</u>)
 - Android <u>Voice Interaction API</u> (video, talk at <u>Ubiquity conference</u>)
 - In App Voice Search
- Previously:
 - Travel photo and attraction ranking for Google Destinations
 - Authorization and Access control infrastructure for YouTube, Google+, Google Apps sharing
 - Java Experiments Framework
 - Tech lead Google Sites
 - Google For Work / Google Calendar / Google Gadgets
 - Hiring committee member / 150+ interviews / Promotion committee
 - Operations experience running large scale services

Adobe Systems - Senior Computer Scientist / Tech Lead

- September 2001 September 2007 (6 years)
- Adobe AIR 1.0 Lead for networking / notifications / multi-monitor support (Top 10 Emerging Technologies of 2008 / MIT Technology Review)
- Tech lead for Acrobat Collaboration
 - Shared Review collaborative document review workflow using simple network file sharing
 - Synchronizer disconnection tolerant replication agent
 - Networking support (SOAP, WSDL, RSS + ATOM, REST, ZeroConf, P2P)
- 20% Internal social bookmarking site used by 1000+ people in the company
- 20% RSS feed service (filtering, splicing, aggregation)

CoVia Technologies / Principle Engineer

- April 2000 September 2001 (1 year 6 months)
- Intranet workspaces built in C++ / Java / Server-side Javascript and OODBMS
- Calendar application
- Batch scheduling system
- Subscription credit card billing system
- Migration from server-side javascript to Java

Caere Corp (now Nuance) / Staff Software Engineer

- July 1996 April 2000 (3 years 10 months)
- Optical Character Recognition (OCR) Core Technologies group
- Tech lead for Omnipage Pro 10.0 OCR Engine
- Page layout recognition for Omnipage 8.0, 9.0, 10.0
- Noise removal, layout rendering and quality evaluation
- Built online OCR service

Cognos Corp (now IBM) / Software Engineer + Intern

- May 1991 September 1995 (4 years 5 months)
- Worked on a system for applying a single SQL dialect across heterogeneous RDBMS systems (Oracle, Sybase, Teradata) including cross database joins.

Patents

Issued:

- Searching a database of selected and associated resources / United States 8,190,602
- Distributed computing document recognition and processing / United States 6,742,161
- Method and apparatus for customizing presentation of notification lists / United States 8,244,796
- Document-authorized access to a shared workspace / United States 9,166,954
- Content review with proxy comment management / United States 9,130,905
- Selecting photographs for a destination / United States 9,076,079

- Selecting photographs for a destination or point of interest / United States 9,483,495
- Document-authorized access to a shared workspace Various embodiments / United States 9,491,150

Applications:

- Intermittent connectivity tolerant replicated document collaboration workspaces / United States US 20140032500 A1
- Destination and point of interest search / United States US 20140279261 A1

Citizenship:

- United States
- Canada
- United Kingdom