TAN QUACH

3A - 303 E 12TH ST. NEW YORK, NY 10003 (347) 654-3253

An independent software designer, consultant and application architect with over 15 years of experience in all facets of software development. Strong proponent of open-source software with prior contributions.

Specializing in platform and API development with a focus on Internet scalability.

Primary skills: Go, Python, Scala, Java, Ruby

hello@tanquach.com

@tantastik

github.com/tantastik

bitbucket.org/tquach

PROJECTS

Selected examples of recent development projects underway or completed.

APACHE BUILDR

Ruby, RSpec, Hg
buildr.apache.org

Contributed an extension to the Apache Buildr project for performing releases with Mercurial VCS. Included RSpecs and unit tests.

TALENT CURATOR

Python, Flask, SQLAlchemy, OAuth
github.com/tantastik/talent-curator

Python app accessing Google Drive using OAuth2. Simple persistence using SQLAlchemy.

GOLANG-REST

Go, Mongo DB, REST
github.com/tantastik/golang-rest-server

REST-based resource retrieval using Go and Mongo DB.

COUCHBASE-PLAY-PLUGIN

Scala, Couchbase
bitbucket.org/tquach/play-couchbase
(private)

Proof-of-concept Play framework plugin written in Scala to demonstrate connecting to a Couchbase cluster node. Based on ReactiveMongo-Play plugin.

RECENT EXPERIENCE

CROWDSURGE

CROWDSURGE

*Dec 2013 – Current
New York, NY*

Platform Architect & Principal Engineer
- Produce architecture blueprint for next generation ticketing platform and e-commerce store.
- Run workshops and talks on Go programming for technology group.
- Design and implement OAuth service provider and API access management.
- Design and implement REST-based services using Go, Mongo and Redis.
- Design and implement micro-services in Go programming language.
- Establish coding standards and best practices for technology group.
- Establish load testing and performance best practices using Gatling.
- Mentor and coach junior developers through TDD and pair-programming.
- Techologies: Go, Python, Scala, Mongo, Redis

NURUN

June 2013 – Current
Toronto, ON

Technical Architect

- Engage in research and analysis for large retail e-commerce systems such as Walmart.ca.
- Design and document large-scale gift registry web application based on Scala, Oracle and Mongodb.
- Produce solution architecture artifacts for designing Internet-scale applications.
- Design a content acquisition system using Scala Akka library for transforming static content to indexed and searchable content in Endeca.
- Validate software architecture blueprint designs with proof-of-concepts and spikes.
- Evaluate replication techniques for various NoSQL databases such as Mongo and Couch.
- Produce conceptual and logical data model designs for polyglot data persistence.

CAPCO / TD-MBNA

Dec 2012 – Mar 2013
Toronto, ON

Solutions Architect

- Produced high-level solution design artifacts for integrating MBNA and TD banking systems.
- Assembled architectural blueprints for integrating existing banking systems through SOAP.
- Designed and implemented a Java-based web app integrating several critical banking systems.
- Managed team of software engineers to build an enterprise solution for document management.
- Performed Devops tasks to set up build environment and development environment.
- Technologies: Java, Spring, Hibernate, Maven, EJB3, SOAP, IBM WebSphere,

POLICYEXPERT.CO.UK

Sep 2012 – Dec 2012
London, UK

Principal Consultant

- Engaged to provide management consulting services to C-level executives.
- Managed talent acquisition initiative to rapidly build a high-caliber software engineering team for all roles, including DevOps, QA Engineer, Java Developers and Front-end Developers.
- Devised coding tests for evaluating applicant technical skills and capabilities for all disciplines.
- Provide high-level technical solutions through proof of concepts and prototypes (see Github account).
- Deliverables: technical hiring workflow, recommendations for retention and software delivery best practices.

POINTS INTERNATIONAL LTD.

July 2011 – Aug 2012
Toronto, ON

Principal Engineer

- Provide technical leadership through coaching and training of development staff.
- Designed and developed a JavaScript SDK for transferring frequent flyer miles on client websites.
- Designed and developed Python applications as proof of concepts for CRM applications.
- Liaise with business and product management team to produce rapid prototypes of new applications.
- Delivered presentations and talks regarding API security design and in-depth analysis of OAuth protocol.
- Produced technical solutions for platform projects, providing direction on what programming language, libraries or frameworks to use for new projects.

- Produced whitepaper on API Design Principles as well as working prototypes for leadership team.
- Hired, trained and directly managed two other Principal Engineers.

P A S T   E X P E R I E N C E

2009-2011	BODOG.COM – TECHNICAL LEAD, E-COMMERCE (JAVA)
2009-2009	NURUN – TECHNICAL ARCHITECT
2008-2009	AFFINITY SYSTEMS – LEAD APPLICATION DEVELOPER (JAVA)
2005-2008	BODOG.COM – SENIOR DEVELOPER / TECHNICAL LEAD, E-COMMERCE
2004-2005	UNIVERSITY OF BC – SYSTEMS ANALYST
2002-2004	PHANTOM FIBER – SERVER-SIDE JAVA DEVELOPER

E D U C A T I O N

UNIVERSITY OF WATERLOO
Bachelor of Math, Honours Co-op, Double Major in Computer Science and C&O