David Alexander Tapley

Phoenix, AZ

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EXPERIENCE

Software Engineer	Happy Monday Phoenix, AZ	Apr. 2019 — Mar. 2020

Present from inception of engineering team. Designed architecture for flagship product.
React / Typescript / Hasura / AWS / Terraform.

Senior Software Engineer	Giftcard Zen / RetailMeNot Phoenix, AZ	Nov. 2015 — Mar. 2019

Developed and maintained new and existing systems for start up through acquisition and beyond.
Worked integrating systems for accounting and inventory control.
Ruby on Rails / Elixir / Java

Programmer / Training	Upwork (formerly oDesk) Remote	June 2011 — Nov. 2015

Worked remotely with a number of clients of various team sizes.
Ruby on Rails / C++ / Haskell.

Programmer / Operations	Chronos Mobile Technologies Remote / San Francisco, CA	Feb. 2012 — July 2015

Ruby on Rails web application and API for start up from launch to acquisition

Programmer	Helping You Succeed LLC Remote	June 2011 — Jan. 2012

Worked on desktop application written in Haskell. Maintainer for the open source wxHaskell project.

Programmer	Codemasters Birmingham, England	Apr. 2009 — Mar. 2011

Development of F1 2010 and 2011 on Xbox 360, PlayStation 3, and PC in C++.

Research Team Developer	Last.fm London, England	Feb. 2008 — Dec. 2008

Worked on algorithms to analyze music preferences and provide real time recommendations.
C++ / Java / Hadoop

SKILLS

Programming languages / frameworks

- JavaScript / TypeScript
  High level of familiarity with TypeScript for React and Serverless / Node backend.
- GraphQL / Hasura
  Architected and supported production systems.
- Terraform
  High level of familiarity, contributed to providers, used in production.
- SQL
  Solid understanding of principals. Much professional experience with PostgreSQL.
- Ruby / Rails
  Worked on many new and existing applications. Comfortable with the conventions and gem ecosystem.
- C++
  Comfortable with concepts, professional experience at Codemaster.

- Java
  Used professionally for distributed computing projects. Primary language during BSc degree.
- Haskell
  Active user of the language since 2005 and proponent of the functional programming paradigm.
- Docker
  Used professionally since 2016, including compose.
- Heroku
  Used for multiple production systems, extremely comfortable with conventions.

Tools

- VSCode, Vim / Eclipse
  Avid Vim user, but VSCode is now my preferred IDE.
- git / GitHub
  Experienced working in parallel development teams.
  Very comfortable with distributed version control.
- Testing / CI
  Wide professional experience with attitudes to testing.
  Proponent of continuous delivery, but have experience with release cycle environments.
- Bash / Linux
  Very comfortable using terminal, Linux user for most of professional career.
  Use Ubuntu as primary OS.

EDUCATION

| **MSc Computational** | De Monfort University | Oct. 2006 — Sept. 2007 |
| **Intelligence and Robotics** | Leicester, England | |

Awarded EPSRC grant to fund study, passed.
Areas covered included: Fuzzy logic, neural networks, evolutionary computing and knowledge based systems.
Assessment included: Exams and a three month summer project entitled "A functional programming approach to fuzzy logic".

| **BSc Computer Science** | De Monfort University | Oct. 2002 — June 2006 |
| | Leicester, England | |

Passed with first class honours (top 10%).
Areas covered included: System architecture, networking, programming and database techniques.
Course included a placement year in industry, fulfilled with Viglen.
Final year project, "An analysis of computational solutions of the Sudoku puzzle" earned the university's British Computer Society prize for best final year project 05/06.

MISCELLANEOUS

- Fluent in English.
- British citizen.
- Authorised to work in the US, have green card.