ALAN TRICK

Software Engineer

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I'm a software and web developer with a wide variety of experience. I believe in using the right tool for a job. I believe in being honest and critical about timelines and capabilities. I like projects that have real impacts on real people. I like automation and code reviews.

PROFESSIONAL EXPERIENCE

Developer
Speedline Solutions

📅 2019 – Current   📍 Abbotsford, BC

- Planned and lead initiatives with specific, testable goals
- Interviewed and mentored junior developers and co-op students
- Managed regular automated and manual deployments to production
- Built dynamic UI components and backend for opening hours and upsell features `ReactJS` `Redux` `microservices`
- Created a template-based generator for mobile ordering apps reducing development time from several weeks to a day `React Native`
- Designed & built a performance-sensitive web-based analytics system
  - ETL system with type-safe database access, automated CI/CD, end-to-end testing, and high-performance authentication `AWS CodeBuild` `AWS CodePipeline` `TypeScript/NodeJS` `NestJS` `Sequelize` `JWT`
  - Tuned database queries to load data several orders of magnitude faster and cheaper `PostgreSQL` `Sisense`

Backend Developer
Kudoz

📅 2017 – 2019   📍 Vancouver, BC

- Wrote a framework to enable scheduling and re-scheduling, reducing dropouts.
- Built REST API and administration tools `Django` `Python`
- Set up and managed deployments `Docker` `AWS ECS` `AWS ECR`
- Added geographic regions, fuzzy proximity searches, and tools to import metro data `PostGIS` `OpenStreetMap/Overpass API`
- Built system to transcode, process, & compress uploaded pictures and videos `PIL` `FFmpeg` `AWS S3`
- Implemented "real-time" chat system `Django Channels` `Redis`

Web Developer
Solvere

📅 2015 – 2017   📍 Port Coquitlam, BC

- Designed/developed an application to manage online calls between lawyers and clients. `C#` `MVC.Net` `SignalR` `Stripe` `Zoom`

Developer
Tri-tech/Spire Systems

📅 2011 – 2014   📍 New Westminster, BC

- Migrated code and modernized the database `C++` `Python` `Btreive` `MongoDB` `PostgreSQL`
- Wrote a library to handle common UI–data interaction `Qt`

Older

- Trinity Western University (2007 – 2011) `PHP` `C#` `Python` `SQL`
- CG Emery (2005) `ASP` `HTML/CSS/JS`

EDUCATION

B.Sc. in Computing Science
Trinity Western University

📅 2006 – 2010

Graduated with honors

OPEN SOURCE

Django Vox

Django app that enables admins to create & edit notification using templates `Email` `Attachments` `SMS` `Twitter` `Slack` `XMPP` `Twilio` `Python`

August

HTML to text renderer specifically for emails `Rust` `Servo` `Python`

Django Admin Stats

Data visualization for the Django admin `Python` `C3.js`

Django Agenda

Django scheduling app `Python` `iCalendar`

STRENGTHS

Versatility	● ● ● ● ●
Learning	● ● ● ● ○
Time Management	● ● ● ● ○
Interpersonal	● ● ● ○ ○
Business	● ● ● ○ ○

MISCELLANY

Computing Interests
Infrastructure as Code, Robustness, Distributed Computing, Algebraic Data Types

In School
ICPC Programming Competition, National Honor Society

Mountaineering
ACC Summer Leadership Course, Avalanche training

Other Interests
Dad, Linguistics, French, Vocal Music