

# 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 think trust is important. I like projects that have real impacts on real people. I like automated testing and code reviews.

## PROFESSIONAL EXPERIENCE

### Developer

#### Speedline Solutions

2019 - Current Abbotsford, BC

- Built dynamic UI components and backend for opening hours and up-sell features `ReactJS` `Redux` `microservices`
- Created a template-based generator to generate our mobile apps reducing development time from several weeks to a day `React Native`
- Helped design & build a web-based analytics backend including:
  - A CI/CD system `AWS CodeBuild` `AWS CodePipeline`
  - (Mostly) type-safe database access, end-to-end testing, and reproducible database migrations `TypeScript/NodeJS` `NestJS` `Sequelize`
  - High-performance OAuth-ish authentication `JWT`

### 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

Rust, Algebraic Data Types, Infrastructure as Code, WebAssembly



### Mountaineering

ACC Summer Leadership Course, Avalanche training



### In School

ICPC Programming Competition, National Honor Society



### Other Interests

Linguistics, French, Vocal Music