Alexander T. Ertel

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I'm looking for a position that will enable me to apply and deepen my experience and branch into new technologies while solving interesting, modern problems.

EDUCATION

The George Washington University   *2016*
- Double Major in Computer Science and Psychology

WORK EXPERIENCE

Software Engineer, Independent Contractor, Expression Networks LLC   *July 2020 – Present*
- Designed and implemented the database and back-end reporting features for government-focused contract tracking software, using Java, Maven, Flyway, JOOQ, Jackson, and building on top of the Alfresco BPM platform
- Implemented Elasticsearch indexing of process data and Kibana dashboards to visualize user workflow statistics, Java
- Wrote a parsing tool for government contract-related information, translating it from XML files to Java objects
- Created internal tool for serializing, deserializing, and interacting with XML files based on an XSD, using Java, Apache XJC, and Jackson
- Made improvements to existing Angular-based front-end application

Software Engineer, Independent Contractor, EmPower Joint Venture   *January 2020 – June 2020*
- Hired to provide ongoing updates and maintenance to the transformer substation remote diagnostics tool built at Synexxus, using Java and JavaScript

Software Engineer, Synexxus Inc.   *November 2017 – March 2020*
- Lead developer/designer on internal tool to manage hardware production pipeline, history of products and their testing, work orders, and deployment state using Typescript, Angular 8, Java, Maven, Spring, and MySQL
- Maintained and designed new features for existing Backbone/Maven application for remote diagnostics and control of transformer substations using JavaScript, Backbone, Java, Maven, Spring, and MySQL
- Designed and created new version of application for remote diagnostics and control of LED streetlight infrastructure using Typescript, Angular 6, Java, Maven, Spring, and SQLite
- Updated sensor data parsing and display applications for military vehicle diagnostic platform using Java
- Wrote application for listening to and displaying power usage of processors sent over CAN bus using C++ and Qt
- Added features to hardware configuration tool using C++ and Qt
- Expanded internal tool to listen for, display, mock, and save CAN bus data using C++ and Qt
- Designed and implemented Gnome extensions to customize Debian distro in military vehicle project using JavaScript bindings to Gnome's C APIs
- Website UI / UX design for new and existing applications
- Designed and implemented MySQL and SQLite databases for new projects and migrated changes into existing ones
- Managed small teams on products where I performed lead developer roles
- Worked directly with clients to gather feedback and plan features for future work

Software Developer, Akira Technologies, Inc.   *May 2015 – October 2017*
- Created a site for HR performance tracking using Angular, MongoDB, NodeJs, Agile methods
- Project lead/developer for sales tool, workflow automation, delivered and maintained tool in active use by team, Angular, MongoDB, NodeJs
- Created and maintained new and old pages for company's Wordpress site in HTML, CSS

- Wrote and tested JavaScript utilities and Wraith checking for site QA
- Developed UI functionality for existing Drupal site, served as technical go-between for client, JavaScript, JQuery, PHP, HTML, CSS
- Testing and QA of new features for existing site

Sarah Fey Design   *Summer 2014*
- Redesigned and updated existing site to improve user experience, HTML and CSS

SKILLS
Languages
- Java, JavaScript, Typescript, SQL, HTML, CSS, C++
Technologies and Libraries
- Maven, Spring, Angular, Node.js, MySQL, SQLite, PostgreSQL, Jackson, JOOQ, Flyway, Elasticsearch, Kibana, Qt, Jenkins, Chart.js, Leaflet, Chartist, Express, Bootstrap, PhantomJS, and more
Miscellaneous
- Agile, Git, SVN, AWS, Azure, Atlassian Jira and Confluence, Office 365
Hardware
- Experience building computers, troubleshooting, maintenance, server hardware
Operating Systems
- Proficient with Linux, Windows, and MacOS