

Lehi S. Alcantara

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Education

M.S. Information Technology, Brigham Young University

- **Thesis:** Deploying and Analyzing Air Quality Sensors in Mongolian Gers
- Cumulative GPA 3.93/4.0

B.S. Information Technology, Brigham Young University

- **Computer Science**, Minor
- Cumulative GPA 3.57/4.0

A.S. University Studies, Utah Valley University

- **Honors**
- Cumulative GPA 3.7/4.0

Experience

IT Engineer Software Developer, BYU OIT, Provo, UT, 09/2014 – Present

- Developed and maintained web-based applications to support Universities needs (BYU Hawaii, BYU Idaho, BYU Pathway, Ensign) from students/faculty to administration. Worked on backend using NodeJS, also worked on BYU iOS mobile app using Swift.
- Enabled all CES schools and Pathway to use a new application service.
- Worked on enabling all CES schools and Pathway to use a decision processing software which facilitated admissions decision process.
- Worked on Auto Reg Cart class registration. Students are now able to plan which classes they would like the system to attempt to auto register classes whenever their priority registration day clears them to register. In this project I used the latest technologies such as: AWS, MongoDB, Polymer, Node.js, Swagger, Git, Docker, Kubernetes, Codeship, Runscope and Ghost Inspector.
- Developed a website both front end and back end using BYU C Framework and Oracle database. It allows students to receive clearance to register for BYU Evening Classes or Salt Lake Center.
- Maintained and enhanced Registration internal websites used by Faculty and Staff, helping them in their daily tasks dealing with grades, reports, student's registration.

Programmer, WALMART, Bentonville, AR, 08/2012 – 09/2014

- Developed a website using C# and VB.NET that allows business users to perform super user actions on a request that needed to be modified in Teamworks.
- Developed an optimized search look up where depending on the field being used by business users, it prioritizes the search accordingly in order to look through millions of rows in DB2.
- Developed and installed quarterly releases of workflow and taxonomy using IBM DB2 in order to help business be in sync with their current business model.
- Participated in 3 "Hack Day" events where I had to collaborate with different teams to come up with creative resolutions to business problems.
- Migrated .NET desktop tools to a website format using ASP.NET MVC.
- Developed a POC to business in order to move away from spreadsheet format containing workflows. Used ASP.NET and jQuery to retrieve data from DB2.

Information Systems Intern, WALMART, Bentonville, AR, 05/2011 – 08/2011

- Worked as a software developer on an ASP.NET MVC web application, with jQuery on the front-end. The application is designed for suppliers and my focus was to improve supplier usability. I worked on client-side grids to represent data that was more organized and user-friendly to the suppliers.
- Developed a web-based reporting tool. This helped managers generate custom reports which were sortable in order to meet their needs.
- Fixed bugs that were reported by QA. This gave me a better understanding of the code-base as a whole, and enabled me to more fully understand the customer's needs.

Computer Programmer, BYU, Humanities Research Center, 04/2011 – 08/2012

- Developed a website that allows students to schedule an appointment with a tutor. Authentication was done via Google OAuth, as well as through the department's MySQL database.
- Developed a website to display a newsfeed, calendar, and picture gallery. Front-end, used jQuery for the UI and Ajax calls to retrieve information from MySQL database.
- Developed a website that enables faculty to perform book searches. Google Books API was used to retrieve book information.
- Developed an Android tablet application that enables faculty to quickly search foreign movies available on BYU media server.

Volunteer Representative, Chicago, IL, 04/2002 – 04/2004

- Held a variety of leadership positions. Responsible for the health, safety, motivation, and results of other full-time volunteers.
- Developed communication, teaching, and office skills.
- Supervised work and welfare of other full time volunteers.

Skills

Programming Languages: C#, Java, VB.NET, C++, C, Android, Assembly LC3, Python, Arduino.

Frameworks: NodeJS, VueJS, AngularJS, Swagger, ASP.NET Web Forms and MVC, Web API, WCF, PHP, JSP, WordPress, WPF, Rest API.

Web: Bootstrap, HTML, CSS, JavaScript, JQuery, JSON.

Database: DynamoDB, MongoDB, InfluxDB, DB2, Oracle, MySQL, PostgreSQL, SQL Server.

IDE: WebStorm, Visual Studio & Code, Eclipse, MinGW, Arduino, PyCharm, DataGrip.

Applications: Docker, IIS, Apache, Git, Subversion, VirtualBox, VMware, Wireshark, Gimp, Photoshop.

CI/CD: GitHub Actions, Kubernetes, Runscope, Postman, Ghost Inspector, Mocha, Jest.

Cloud Service: AWS, Google.

Data Science: Pandas, NumPy, Scikit-Learn, Jupyter Notebook, Grafana.

Information Technology: Cyber Security & Penetration Testing, Digital Forensics, System Administration, Information Security, Firewalls, Server/Client Model, Network Design, Network Configuration, TCP/IP, Human Computer Interaction, Cyber-Physical Systems, IoT Systems Engineering, Data Processing Pipeline.

Computer Hardware & Protocols: Computer Architecture, Digital Communications, Routers, Cisco Switches, Ethernet, Wireless Networks (WiFi, Bluetooth, LoRa).

Operating Systems: macOS, Windows, Linux.

Language: Portuguese, fluent oral and written.

Strengths: Able to solve complex problems. Excellent communication and interpersonal skills as well as cultural awareness. Able to manage multiple projects simultaneously.

Affiliations/Awards

BYU Alumni Association, BYU IT Student Association, IEEE member, UVU Alumni Association, Scholarship recipient.

Projects

- Augmented Reality Innovations.
- Mongolia Air Quality Sensors.

Publications

- The Hitchhiker's Guide to Successful Remote Sensing Deployments in Mongolia.
- Deploying and Analyzing Air Quality Sensors in Mongolian Gers.