

Chase Ingebritson

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Professional Experience

University of St. Thomas, Enterprise Application Development

January 2018 - Current

Software Engineer (September 2019 – Current)

- Maintained all previous responsibilities
- Created AWS infrastructure using Terraform and CloudFormation to support both front-end and back-end services
- Created a population density API that utilizes information from wireless access point connections to estimate current building populations and peak hours, helping to alleviate building congestion
- Created an API to share meal information for various dining locations including availability, hours, and meals at the dining stations with other UST applications
- Created a Question-and-Answer bot using Amazon Lex to supplement the UST knowledge base, provide easy access to resources and more detailed explanations regarding specific topics, and hand off to live chat agents when necessary

Web Developer III (August 2018 – September 2019)

- Supported web-based and mobile applications for the University of St. Thomas community
- Developed server and serverless back-end applications using Node.js
- Developed front-end websites and UI components to be used with back-end services developed by our team or purchased from vendors,
- Co-developed the first iteration of St. Thomas mobile application, including campus directory, room reservation, and news feed
- Campus Map: Updated design and accuracy of data points, included a large display for digital signage, live departure and arrival times
- Campus Map: Added an admin panel allowing for easier updating, building alerts and hours, improved filtering, added nearby metro transit information including live tracking

Web Development Intern (January 2018 – August 2018)

- Worked with the Enterprise Application Development team in creating new web-based applications as well as additions for existing apps
- Created a web component for users to view digital signage, allowing users to better track campus events and news
- Created and launched Shuttle Tracker and Campus Map web apps, utilized live tracking for St. Thomas shuttles via API, provided navigation for users
- Created URL shortener web-based application, used over 600k times since launch

Education

University of St. Thomas, Minnesota

June 2018

Bachelor of Arts in Computer Science

Courses: Web Development, Artificial Intelligence & Robotics, Operating Systems, Computer Architecture, Writing & Designing for the Web, Algorithms, Software Engineering, Database Design, and Data Structures

Technical Skills

Languages: Javascript, Typescript, PHP, HTML, CSS, SASS, Python, Java

Libraries: Amplify, Angular, Axios, Babylon.js, Bootstrap, Deck.gl, Express, Ionic, JOI, Jest, Lodash, LTIjs, Luma.gl, Material UI, React, Redux, three.js, Vue, Vuetify, Vuex, Webpack

Services: CloudFormation, CloudWatch, CodeStar, Cognito, DocumentDB, DynamoDB, ElasticBeanstalk, Lambda, LightSail, Route53, SES, Lex, Git, Mapbox, MongoDB, npm, OpenStreetMap, Google Maps, Serverless, Terraform

Projects

Personal Website | <https://chaseingebritson.com/>

Nov 2021 - Current

- Created a design for my personal website then implemented it using Vue, Bootstrap, Amplify, SES, DynamoDB, and Lambda

Question & Answer Bot**Oct 2021 - Current**

- Generated a QnA bot to answer questions for clients in the UST knowledge base in an attempt to lower the amount of traffic the call center received
- Built upon a low code solution that AWS provides utilizing CloudFormation, Lambda, and Lex

My Actions LTI**Dec 2020 - Sept 2021**

- Created an LTI (Learning Technology Interoperability) tool to include information in Canvas regarding grades, advisors, clubs, and more, providing students with easier access to important information in introductory courses.
- Combined serverless Lambda functions with open-source libraries to build a fast and inexpensive tool

UST Website Redesign | <https://stthomas.edu/>**Aug 2018 - Aug 2020**

- Received and reviewed the initial Vue template from our vendor, then built upon the initial design to create further components
- Utilized the new template and worked with another vendor to integrate with Cascade CMS
- Provided documentation to explain how the new template works then taught other developers across teams how to develop for the new site
- Upgraded and created components for over 10,000 individual pages across 13 different schools and branches of UST
- Created integrations to bring information from Salesforce and many different internal APIs to the new website

Campus Map | <https://campusmap.stthomas.edu/>**Mar 2018 - Current**

- Upgraded the existing campus map application to support more functionality including linking directly to individual buildings, finding directions on and off campus, and highlighting building features
- Later rewrote the application from the ground up using Vue and Vuetify to ease future development, improve overall performance, and support backend integrations
- Updated from Google Maps to OpenStreetMap & Mapbox to modify campus layout and building changes faster
- Added an administrative panel that utilized SSO and Firebase to deploy new information more easily and more frequently
- Included information regarding COVID policies for each individual building

Shuttle Tracker | <https://bustracker.stthomas.edu/>**July 2017 - Oct 2020**

- Designed and created a shuttle tracking application from the ground up for shuttles traveling between UST campuses
- Utilized vendor fleet management tools to obtain location information for company shuttles
- Determined shuttles currently working for St. Thomas by checking proximity between campuses and direction of travel
- Provided information regarding ETA by calculating distance between each campus and checking against previous locations
- Implemented shuttle schedule information including upcoming departures based on local times