

Alex Patow

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Accomplished Full Stack JavaScript Developer and Technical Architect with a solid ability to transform software solutions from initial brainstorming to production release. Effective communicator and leader; accomplishes tasks despite tight deadlines and changing requirements. Works collaboratively to ensure positive outcome for team and project.

Experience

Accenture Digital

Digital Business Integration Consultant
Digital Technology Developer Senior Analyst
Digital Technology Developer Analyst

Chicago, IL
July 2015–Current

RouteNow:

- As the Development Team Lead, manages near-shore and off-shore developers to enhance Accenture's proprietary Same-Day Delivery as a Service platform, RouteNow
- Platform includes a mobile app (native Android), multiple single page web applications (Angular 5), and a diverse set of APIs (Node.js/Express)
- Technical Architect for the design of a more robust, microservice-based architecture for upcoming 2.0 release
- Establishes solid relationships with clients to ensure their product and performance expectations are met

Digital Agriculture Service:

- Worked with a team of offshore developers to create a hybrid mobile application, using Ionic framework, to help farmers increase yield and decrease costs through the use of sensors, satellite imagery, and analytics, generating client value
- Responsible for overseeing the design, development, deployment, and maintenance of API services for the mobile application and administrative website using Express, Node.js, and Swagger/OpenAPI Specification
- Led the front-end development of the administrative website using AngularJS, enabling Accenture employees to effortlessly manage master data within the platform
- Incorporated crash and event reporting services to inform developers of potential issues and project leads of user statistics using Fabric
- Built and maintained Continuous Integration and Continuous Delivery server, providing reliable nightly distributions to developers and internal testers for both iOS and Android devices
- Architected and created a bi-directional document syncing service using PouchDB, CouchDB, and Redshift to enable offline usage of the mobile application, greatly enhancing user experience
- Additional information: <https://www.accenture.com/us-en/insight-accenture-digital-agriculture-solutions>

Continuous Integration and Continuous Delivery:

- Partnered with Accenture team working for F500 Client to build their Continuous Delivery server, allowing them to prepare nightly iOS builds

Accenture Mobility “Lunch and Learn”:

- Led multiple “Lunch and Learn” sessions introducing developers to new concepts in Hybrid Mobile Application and JavaScript development

PTC

CAD Segment Intern

Needham, MA
July–October 2014

- Evaluated potential partners to incorporate new features into PTC's computer aided design software
- Created a comprehensive weekly newsletter which provided competitive intelligence to PTC's global sales team based on analysis of competitors' data
- Developed ways to use existing product life-cycle management data to improve customers' efficiency with computer aided design software
- Worked with product manager to develop financial projections based on financial modeling and project cost estimators

Audi AG

Future of Mobility Practicum

Ingolstadt, Germany
June–July 2014

- Selected as one of twelve students to work on a six-week design project focused on the future of transportation
- Conducted extensive market research including 30 face-to-face interviews to gain user insight into opportunities for new products
- Developed revenue generating opportunities based on design thinking methodology related to infrastructure, systems, and services
- Presented a cohesive vision for a connected vehicle, infrastructure, and customer platform to senior management

Education

Boston University

Bachelors of Science in Mechanical Engineering, Technology Innovation Concentration

2015

Université Joseph Fourier

Grenoble Study Abroad Program

Spring 2013

Skills

Programming Languages

TypeScript, JavaScript, and SQL

Frameworks

Angular, Ionic, Node.js, Express, and Swagger/OpenAPI Specification

Technical Architecture

Relational and NoSQL Database Design, CI/CD, Microservices, and AWS Cloud Architecture

Certifications

Amazon Web Services

AWS Certified Solutions Architect – Associate

2017

SolidWorks

Certified SolidWorks Professional

2013

Projects

National Democratic Institute Civic Tech Leadership Program

2016

- Worked with a diverse team from across the Middle East and North Africa region to improve access to government services through technology innovation
- Developed a concept to offload the burden of minor illnesses from resource-strained hospitals in developing nations through an SMS chat bot
- Architected, built, tested, and deployed an API which enables people to receive a medical diagnosis and treatment recommendations via SMS messages and reducing healthcare expenditures
- Code (with demo video): <https://github.com/alexpatow/sms-health>
- Program Information: <https://civictechleaders.org/civic-tech-leaders-virtual-exchange>

Benilde-St. Margaret's Drama Department Prop Rental Website

2016

- Created a webpage to allow school to rent props to other schools and organizations in order to maximize use and generate revenue
- Used Jekyll to generate the static pages and Skeleton Framework with SCSS for styling; resulting in a fast, responsive, and easily maintainable website
- Built a custom Node script to generate the Markdown content for Jekyll and Gulp task to deploy the site from the command line
- Website was used as part of an exercise in the school's marketing class
- Code: <https://github.com/alexpatow/bsm-prop-rental>
- Website: <http://www.bsmproprental.com>

Leadership and Activities

Boston University Design Community

President

2012-2015

Boston University Ski Team

Student Athlete

2013-2015

Mechanical Engineering Undergraduate Advising Committee

Student Member

2012

Boy Scouts of America

Eagle Scout Award

2009