

Summary

I am a full stack JavaScript developer with experience designing, developing, deploying, and maintaining production applications on AWS.

Education

Georgia Institute of Technology (Atlanta, GA) Jun '11 - Dec '16
Bachelor of Science in **Mechanical Engineering**
Bachelor of Science in **Computer Science** concentrating in **Devices and Intelligence**

Technical Experience

TransNexus - Software Developer (Atlanta, GA) Sep '15 - present

- Designed, developed, deployed, and maintained ClearIP VoIP management and protection platform
 - Provides real time fraud detection and prevention with near linear scalability using microservice architecture pattern
 - Served as architect and lead developer on project
 - Developed distributed, stateless SIP server written in JavaScript using Node.js with Redis for storage
 - Developed distributed, stateless RESTful API written in JavaScript using Sails.js and Node.js with MySQL for storage
 - Developed web interface written in JavaScript using Ember.js, jQuery, and Bootstrap
 - Developed numerous supporting applications for queue processing, billing, archiving, etc. written in JavaScript using Node.js
 - Deployed applications with HashiCorp Packer, AWS Elastic Beanstalk, and AWS S3
- Designed, developed, deployed, and maintained TransNexus Administration Portal
 - Provides web interface and API for managing customers' software
 - Served as architect and lead developer on project
 - Developed distributed, stateless RESTful API written in JavaScript using Sails.js and Node.js with MySQL for storage
 - Developed web interface written in JavaScript using Ember.js, jQuery, and Bootstrap
 - Deployed applications with AWS Elastic Beanstalk and AWS S3
- Designed and developed new interface for NexOSS
 - Replaced existing Java web application with JavaScript web application
 - Developed RESTful API written in JavaScript using Sails.js and Node.js
 - Developed web interface written in JavaScript using Ember.js, jQuery, and Bootstrap

BMW Group - R&D Engineer Intern (Munich, Germany) Aug '14 - Dec '14

- Worked on small team to develop and test prototype for use in future cockpit of automated vehicles
- Developed GUI to monitor and control prototype in real time for dynamic simulator testing using MATLAB
- Created electrical system and software for controlling linear actuator with pulse width modulation using C++
- Created custom PCB Arduino shield and software for recording feedback with force sensitive resistors using C++

McKenney's, Inc. - Information Technology Intern (Atlanta, GA) May '14 - Aug '14

- Diagnosed and resolved technical issues related to hardware and software
- Developed automated system for sharing files with contractors via FTP using HTML, JavaScript, PHP, and batch

Georgia Tech IEEE - Webmaster (Atlanta, GA) Aug '11 - May '14

- Developed new website using HTML, CSS, JavaScript, and PHP
- Placed in IEEE SoutheastCon Website Competition every year – 1st Place (2014), 1st Place (2013), 3rd Place (2012)

General Electric Aviation - Software Engineer Intern (Cincinnati, OH) May '12 - Aug '12

- Developed software for first dual core jet engine controller using SCADE qualified C code generator
- Created automated tool for gathering and analyzing licensing server data using Perl, VBA, and batch
- Created project tracking system to quickly identify problematic deadlines using VBA

Skills

Programming Languages: JavaScript (advanced), Python (moderate), MATLAB (moderate), C/C++ (basic)

Web Frameworks: Node.js, Sails.js, Express.js, Ember.js, Handlebars, jQuery, Bootstrap

Databases: Redis, MySQL, Amazon Redshift

AWS: VPC, EC2, Lambda, Auto Scaling, ELB, RDS, S3, EBS, CloudFront, IAM, Route 53, CloudWatch, Elastic Beanstalk

Projects

Ember Simple Auth Token (contributor) - <https://github.com/jpadilla/ember-simple-auth-token> May '18 - present

- Ember Simple Auth extension for token based authentication including JSON web tokens written in JavaScript using Ember.js

BQueue - <https://github.com/fenichelar/BQueue> Jul '17 - present

- Node.js library for reliable and distributed batch message processing using Redis written in JavaScript

Arduino Pin Library - <https://github.com/fenichelar/Pin> Dec '14 - present

- Arduino library for fast and simultaneous operations to Arduino I/O pins using port manipulation written in C++

Too Many Lasers (contributor) - <https://github.com/fenichelar/Too-Many-Lasers> Jun '16 - Aug '16

- HTML5 space game written in TypeScript using Phaser

Resume Generator - <https://github.com/fenichelar/resume> Mar '15 - Dec '15

- Tool for creating HTML and PDF resumes from JSON data and HTML layouts written in JavaScript using jQuery and Handlebars