# summary

Self-motivated software developer with a strong understanding of web development, test driven development, great communication skills, and the ability to thrive in a fast-paced environment, looking to work with fun and creative team to transform good ideas into great products.

# technical skills

**LANGUAGES**: JavaScript, Python, SQL, Ruby, C#, HTML, CSS, Bootstrap, Java, MatLab

**BIG DATA TOOLS**: Hadoop, Pig, Hive; Apache Avro;

**FRAMEWORK**: Django, Flask, Rails, ASP.NET Core, MVC

**DATABASE**: MySQL, SQLite, PostgreSQL, NoSQL, MongoDB, Building ERDs

**AWS TOOLS**: EMR, Data Pipeline, S3, Route53, Lambda, EC2;

**FIELD BUS PROTOCOLS**: Modbus, DeviceNet, Profibus, EtherCat, and CanOpen;

**HARDWARE AND PROGRAMABLE DEVIES**: Digital and Analog Circuits, PLC Programming;

**NETWORKING PROTOCOL**: TCP/IP, FTP, Telnet, and SFTP;

**MICROPROCESSORS**: Atmel, ColdFire, ARM, and C505

**Others:** GitHub, jQuery, node.js, Bower, Jade, NPM, Capybara, RSpec, XML (XSD) Schema

**EXPLORING:** MEAN Stack, Vue, React.js, Angular 4, Socket IO

# web development experience

## Coding Dojo, *Full – Stack Web Development Student* Seattle, WA – 2017

Completed an immersive web development program with more than 1,000 hours spent learning and developing web applications using Python, MEAN, Ruby on Rails, and C# ASP.NET Core MVC framework.

**Projects**:

* **Appointment Planner** (Python) – An appointment planning application with share feature among registered users.
  + I structured the database and implemented the front end design plus deploying the app using Amazon AWS (EC2) all within 4.5 hours
  + Developed using Python, Django, SQLite, HTML, CSS

**+ Online Lending** (Ruby) – Online Lending application for registered Brokers and Lenders to raise and give money.

* + I structured the database and implemented the front end design plus deploying the app using Amazon AWS (EC2) all within 4.5 hours
  + Developed using Ruby on Rails, PostgreSQL, HTML, CSS

**+ Professional Network** (C#) – Twitter like application for registered Users to accept connection request.

* + I structured the database and implemented the front end design plus deploying the app using Amazon AWS (EC2) all within 4.5 hours
  + Developed using C# ASP.Net Core, Entity Framework, MySQL, HTML, CSS

# proFrssional experience

**Senior Software Developer, Point Inside Seattle, WA -2013 – 2016**

* Lead, designed and developed the platform that lead to our first paying Big Box retailer partner using Pervasive Software (Actian) Integration and AWS tools.
* Lead, designed and developed product location assignment algorithm used for deriving and displaying the map location of products sold in retail stores.
* Co-ordinated and participated in code review using pull request via Bitbucket.
* Improved data ingestion process time by 60% by redesigning it using JAVA and MYSQL based solution.
* Developed various custom parsers that transformed inbound data into Avro data, using Java and Apache Avro which allowed for flexible NoSQL access to the data.
* Designed and created system that allows daily metrics view of partner data in S3 and Mongo DB which allows teams to ask questions about the data in near real-time.
* Designed and effected a process to ingest and transform CAD/Link files to the format required by Indoor navigation Engine (INE), decreasing the processing time from 3 hours to under 30 minutes.
* Designed and developed parser and transformer, of less transparent INE XML map output data, to Avro model that is reusable by downstream teams.

**Senior Software Consultant, Pervasive Software (Actian) Austin, TX - 2012 – 2013**

* Lead and designed and developed test modules in Groovy language for the data integration project for ADP garnishment and payroll module, reducing the number of bugs found during deployment by 80%.
* Performed code reviews for the ADP data integration project.
* Designed and implemented CRM, and ERP based projects between SalesForce.com, Oracle CRMOD, NetSuite, and otherworld computing, and ADP, and Kate Spade using Actian Data Integrator and Actian Data Cloud, to solve their B2B or B2C needs.
* Held department meetings with: development, project management, business analysts, document department and directors

**Embedded Device Test Engineer, MKS Instrument Austin, TX -2007 – 2012**

* Learned and mastered, very fast, various software and programming tool; completed training for developing ECLR User Block with C# for PLC applications, and PLC Programming with MultiProg.
* Developed low- and medium-level C & C++ drivers for embedded microprocessors.
* Designed and maintained test application developed with using C#, LabView CVI, C++, and .Net and MFC Framework.
* Created test cases and documentation according to design requirements documentation.
* Developed Window CE test application for Latency and Integrity testing for real time embedded mixed I/O units.
* Conducted hardware and software tests for research and development on patented and general products.
* Performed Conformance test embedded devices with Field Bus Protocol support- Modbus/TCP, DeviceNet, Profibus, and EtherCAT.
* Proficient at analyzing signal traces on both Serial and Parallel protocols. Very experienced at both system-level and circuit-level root cause analysis.
* Worked with clients off-site (Applied Materials, Samsung, etc.) in providing resolution to application issues.

**Field Support Engineer, MKS Instrument Austin, TX – 2003 – 2007**

* Added SQL database support to production script test software.
* Integrated and tested systems consisting of main boards and various cards used in the 300 mm chamber-control module used in robotic clean-room manufacturing environments.
* Evaluation and Qualification of Production and Manufacturing test application before final release.
* Provided telephone and field service support to our customers at Applied Materials, Bench Mark, and Samsung Austin Semiconductors, mostly in the clean room environment.
* Visited client sites and interacted with them to help install software and resolve QA issues/complaints.
* Analyzed returned cards and developed recommendations for redesign and manufacturing enhancements. One of the project led to more robust cards and a significant reduction in returns.
* Published trouble-shooting guide for use, by customers, that eliminated returns

# Education

* **Coding Dojo Seattle, WA – 2017**

Full Stack Web Development {Python, Ruby on Rails, C#, ASP.NET Core}

* **University of Texas Austin, TX – 2010 – 2013**

Completed 70 Credit hours.

* **DeVry University Fremont, CA – 2000 – 2003**

Bachelor of Science in Electronics Engineering Technology Degree, *GPA 3.75*