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# Peter LaBanca

## Software Development Manager/Senior Software Engineer

### SUMMARY

Have been programming since the age of 11. Fast learner with strong architectural skills. Able to break complex systems down into their simple parts. Love to educate others on the knowledge accumulated over time.

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### EXPERIENCE

#### Personal Projects

- Blackjack Poker (Java, Swing)
- Third-party Client/Server for Ares Galaxy chat protocol
- Cilantro's webmaster, former competitor to Chipotle (Wordpress)
- Syntax highlighter for Google Wave (Java)
- Webmaster for a licensed social worker (Wordpress)

#### Microsoft TEALS - Toll Gate High School, Warwick RI

*Teachers Assistant - SEPT 2020 - MAY 2021*

- Non-profit program that paired teachers with experts in computer science.
- Goal was to increase computer science literacy for both students and teachers.

#### StudentUniverse, Waltham MA

Technologies: Java, Grails, Groovy, Gradle, Angular, Javascript, Less, YAML, XML, JSON, GORM, Hibernate, Postgres, Elasticsearch, Redis, Spock, JUnit, Jasmine, Git, Jenkins

*Software Development Manager - FEB 2022 - PRESENT*

- Mentored and managed other engineers to advance their skills and impact within the team.
- Coordinate group knowledge sharing sessions to ensure proper communication of technologies and concepts, existing and new.
- Represent the engineering team in business decisions and meetings with partners.

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*Senior Software Engineer - JUN 2019 - FEB 2022*

*Software Engineer - JUN 2013 - JUN 2019*

*Junior Software Engineer - JUN 2011 - JUN 2013*

*Intern Software Engineer - APR 2011 - JUN 2011*

- Designed and implemented many systems critical to the operation of the business, including but not limited to, student verification, business rules evaluation, server deployment and monitoring.
- Coordinated with project managers, QA, marketing and other stakeholders to ensure successful project delivery.
- Added many product offerings, including integration with third party APIs to handle search, purchase and post-purchase management.

## *Projects*

### **Geolocation Service**

- Designed and implemented a central API for clients to get geographic locations.
- Created administrator interface in order to change details or add/remove locations.
- Used Elasticsearch to provide fast text searching used for location input fields on the website.

### **Business Rules Engine**

- Simplified future projects by building a dynamic rules engine to remove the need to know when behavior should run during development.
- Rules engine would accept incoming data, compare to the rule set, and return whether the data matches the criteria.
- Rules could be changed at any time and the system would react appropriately.

### **Authentication Service**

- Implemented OAuth-style authentication
- Used an authentication provider (in-house or single sign-on providers) to generate a token
- Token used to then prove authentication to other systems

### **Server Deployment Service**

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- Allows administrators to quickly manage hundreds of servers, from deploying new versions of code to checking the health.
  - Retrieved data from many different sources through a data abstraction layer, utilizing many threads to do things in parallel.
  - Built auditing tools to ensure that there was always visibility into deployment operations

### **Payment Service**

- Clients can use the service to convert payment data to a token that can be used by other services in the system to charge/credit.
- Follows PCI-DSS and PSD2 standards for data privacy and protection.
- Ability for installment payments and virtual credit card technology tied to either the user or the business.

### **Verification Service**

- Clients can provide information provided by a person to verify the information is legitimate.
- Used in practice to provide discounts to students who could prove their enrollment in a university.
- Allowed many methods of proof, from automatic based on personal information, to manually uploaded documents.

As well as many other projects/initiatives; Control Panel service, bi-weekly knowledge sharing meeting (Propellerhead)