*I am a passionate technology enthusiast. My interests include Mobile,Web,AI and embedded hardware development. I have been developing and configuring computers from around 15 years old. My skill set is very diverse and my passion for new technologies help me learn and pick up new skills very easily. I have been known to produce high fidelity mockups and projects from very basic Business needs. This trait allows me to explore many options and software, in order to make better recommendation to our customers. This exploration process excites me and allows me to have a clear implementation strategy for all my projects.*

**Work Experience and Skills**

**California State Lottery - SSSII-Mobile Developer**

**06/01/2013 - current**

* Solved critical production problems and performed rapid releases with minimal player impact.
  + Supported and maintained multiple versions of application on Android and iOS
  + Created reports from analytic data in order to help resolve user challenges.
  + Rolled out / Designed features around user actions from analytics/Events user performed.
  + Implemented Analytics in order to understand our user better
  + Created campaigns to track dollar spent better
  + Won two years in a row **California Mobile Gallery** for best government mobile app
  + 4.2 Star rating in Android app Store
    - 99.8% Crash Free app
    - Supports over 500,000 Active Users per Month
  + Created Automation build pipelines
  + Integrated deeply with Git VSTS and Continuous integration tool such as genkis/VSTS online an circleCI.
  + Created Build and release guidelines in order to protect users from Buggy releases
* Implemented Sign In on Mobile App.
  + Experience working with auth servers
    - Experienced with session state management .
    - Experienced with multiple authentication protocols.
    - Experienced with SSO implementations.
  + Worked with Business on getting messaging and App behavior to apply to Lottery Standards.
  + Integrated Automatic Sign in and implemented custom encryption algorithms in order to keep user data secure
    - Familiar with OWASP guidelines and implement them in all my development efforts
* Re architected the Mobile application
  + iOS-Rewrote application from Objective C to Swift
  + Android extensive rewrite into Kotlin many Service/API handlers were converted to Kotlin
    - Created singleton classes
    - Worked with Object and functions extensively.
    - Created guidelines for new feature development in Kotlin
    - Wrote Kotlin for server side logic also.
  + Implemented best practices guidelines and documented all process inside wiki process
  + Educated Co-workers about latest trends in both Android and iOS
  + iOS/Android-Redesigned look and Feel
    - followed Industry standards
    - The UI/UX was designed to follow platform guidelines.
    - Applied Creative thinking in order to present business with multiple design ideas.
    - Experienced in Photoshop/Illustrator/After Effects
    - Defined interaction and removed friction points
  + iOS-Implemented new navigation style aligning with Apple standards
  + iOS-Implemented RealmDB in order to maximize read/write times from core:Data
  + iOS/Android-Implement Firebase Analytics and Remote Config in order to configure messaging and application behavior without having to deploy new app version.
    - Implemented analytics strategy.
    - Worked directly with product managers and executive stakeholders throughout the complete project lifecycle.
    - Create a modular system design, maximizing extensibility and allowing for product evolvement.
  + Migrated Android development environment from Eclipse to Android Studio.
    - Reconfigured build systems to align with industry standards
    - Migrated Code to new IDE
    - Slimmed down application size
    - Invited to Google IO
* Implemented API monitoring software and helped with procedures
  + Integrated alerts into Slack,Email,Txt.
  + Customized Alert depending on business needs
  + Configured Alerting Thresholds and Reporting Buckets
  + Educated coworkers in order to understand alerting configurations
  + Educated coworkers about new tools to help with Daily tasks .
* Helped identify viable mobile automation testing tools
  + Led efforts to identify key purchase criteria
  + Created test scripts to test features provided
* Created multiple POC application for Lottery
  + Digital Assistants such as Alexa, “OK Google and Cortana
  + Integrated these Bot apps into Text/SMS and Chat applications.
  + Researched and implemented tools in order to do Natural language processing
  + Wrote backend services in order to parse user phrases to actions which mapped to dynamic responses depending on what user is requesting

**California State Lottery - DBA**

**06/01/2013 - 06/01/15**

* Perform point in time recovery plans
* Develop storage procedures relevant to the application of API services
* Implemented automated database backup
  + Designed reports and alerts around Database Jobs
  + Created dashboard for users to view when SQL ETL jobs are running
  + Interfaced with multiple tools such as SolarWinds,RedGate and may others.
  + Open Sourced many basic SQL performance queries in order to better understand system loads and other anomalies inside the SQL engines.
* Installed multiple SQL instances configured and designed backup strategies
  + Excellent at trouble shooting problems solving
  + Generated full object-to-relational (ORM) mapping layer including, stored procedures, constraints, indexes, views, data objects, tables controllers and data validation.
* Organized Backup and Recovery plans for Field Office and Headquarters database servers
  + Created SharePoint site to share and organize internal documentation for Infrastructure
  + Migrated SharePoint to 2013 from 2010
* Use IIS, Apache servers, and PHP to develop mobile application back-ends
  + Utilized cloud platforms to install these services to host websites and apps**.**
  + Created endpoint via JSON/XML response types that would query data
  + Indexed and created guidelines for Indexing certain Rows and Keys in DBs for optimal performance across “Join Keys”
* Document load results, penetration results, and manage alpha and beta test groups
  + Created load tests that simulate real user behavior across our Public Website
  + Monitored and documented system resources and cross references them with my Load test in order to build a comprehensive picture of our thresholds.

**Freelance Developer**

**01/2009 – current**

* Experienced in Web Development, including LAMP (Linux, Apache MySQL PHP), HTML5, CSS
* Created a Home Automation platform from scratch.
  + Used arduino and other embed hardware to connect sensors inside home
  + Ported Firebase Real Time DB to run on Arduino
  + Connected multiple sensors to one integration Hub
  + Created complex flows for when sensors or actions are given
  + Created Data ingestion Pipelines in order to make sense of data
* Created an Autonomous self Driving RC car
  + In order to learn about AI i decided to create a self driving car with computer Vision
  + Used Raspi and Camera to capture images from RC car
  + Raspi ran custom Machine learning model that identifies hard and soft edges and calculated trajectory
  + Raspi communicated to arduino over serial port in order to change card direction and velocity
* Completed multiple Projects, worked with vendors and customers to establish business criteria and needs. After realizing customers wants I would present them with prototype of my work and recommendation for future maintenance and development efforts before I began programming the application. Throughout the Process kept the customer informed of all changes and fixes to the app. Was in charge of all installation and configurations for the apps
  + Planned technical projects
    - *Evaluating different types of software and frameworks to determine best performance and look and feel*
    - *Provided Daily updates on Progress of Project to Multiple Customers.*
  + IDE-Eclipse, Visual Studio,Codenvy,C9,Android Studio
    - *Worked with multiple frameworks and Languages (backend and frontend)*
    - *Experienced in working with Bootstrap and other Responsive templates*
    - *Familiar with Javascript,Java,Perl,C.*
    - *Finished multiple project with current tool set*
    - *Designed and programmed multiple backends and frontends for mobile and web applications*
* Familiar With Mobile Network testing tools such as Jmeter and Blazemeter
  + Have organized several Load and Performance Tests, determined and pinpointing bottlenecks in systems and helped customer troubleshoot problem and resolve them
  + Documented results for Organizations
* Information Security has always been a passion of mine this is what is do when i have free time is explore and educate myself about new adversarial techniques I follow this fields closely and participate in hackathons and other community events to bring awareness to this subject,
  + Attends LUGOD meeting as-well as DF916

**Staples - IT Technician and Tech Manager**

**03/16/2012 - 06/1/2013** –

* Contributed $3000/week in sales and PC repair
* Troubleshooted computer systems errors, suggested modifications, loaded software/applications
* Managed Quality Control of repairs over team of 5 to ensure accurate configuration of systems/applications
* Researched problems with hardware and software platforms and resolved compatibility issues
  + Organized and coordinated repair and install efforts in Tech Department
    - *Was in charge of sales and budget*
  + Did resource planning and scheduling on different projects
  + Reported to Customers with technical recommendations/modifications to systems and software
    - *Made sure that the direction of the project will be sustainable and aligned with shop needs*
    - *Provided quick demos and proofs of concept to customers to show the benefits of going with one product or another*

**University of California, Davis -Intern**

**6/2011 - 9/2011** - – Intern for *Critical Assessment of Protein Structure Prediction Project*

Worked with PostgreSQL database, wrote computer codes in Perl, automated company’s website (predictioncenter.org). Worked with installation of computers and data networks. Participated in building computer systems (installing and replacing components) and their troubleshooting.

**Education**

California State University, Sacramento (expected graduation - TBD)

