

# Michael Welnick

Software Developer

## OBJECTIVE

I am a software developer and entrepreneur looking for opportunities to expand my knowledge base and solve challenging problems. My dedication to thorough logical reasoning combined with my experience spanning a range of hardware and software technologies provides a unique perspective in the software field. I specialize in using my knowledge and attention to detail to ensure my work goes beyond merely meeting your requirements; I will help you build a product you are proud to deliver.

## WORK HISTORY

**BLOCKCHAIN/BACKEND DEVELOPER,  
BLOOM PROTOCOL LLC, PHOENIX AZ (REMOTE)**

**JULY 2018  
PRESENT**

- Architected a service that tracks on-chain ethereum events and atomically updates a database
- Wrote and executed PostgreSQL migration scripts that perform transformations on complex JSONB structures
- Deployed and managed microservices using devops tools including Docker, Docker Swarm, Nginx, and Jenkins
- Designed and Implemented a protocol for securely storing and retrieving encrypted and platform agnostic user data
- Helped develop protocols that protect user data with cryptographic constructs such as merkle trees and hashing
- Drafted and instantiated APIs with a node expressjs server application to be consumed by a mobile app team

**CO-FOUNDER, BLOCKCHAIN DEVELOPER,  
PHOENIX BLOCKCHAIN LLC, PHOENIX AZ**

**OCTOBER 2017  
JUNE 2018**

- Created a C# trading bot utilizing Azure that executes arbitrage opportunities on a decentralized exchange
- Built a dynamic single page app with React that runs on IPFS
- Used Angular and Typescript to design serverless production grade financial applications
- Composed containerized lambda functions with Node.js to run on Docker and AWS
- Developed solidity smart contracts that facilitate decentralized lending and trading on a DEX
- Designed smart contracts for ICOs
- Worked directly with clients to optimize project requirements for their specific needs and budget

**ASP.NET C# DEVELOPER,  
PRIZELOGIC INC, PHOENIX AZ**

**October 2015  
SEPTEMBER 2017**

- Created promotional websites with ASP.NET MVC for large clients including Samsung, Pepsi, Hersheys, and Sony
- Rearchitected live systems using SSMS without going offline to meet client needs
- Designed a performant TSQL schema for syncing multiple large databases to a data warehouse
- Integrated JSON and SOAP shipping APIs responsible for fulfilling millions of dollars worth of prizes
- Wrote robust stored procedures for assigning codes and sending emails where mistakes could be devastating
- Engineered reentrant message queues utilizing Hangfire for sending tokenized emails and making critical API calls
- Constructed a custom report engine that converts SQL queries to Excel and delivers to clients through FTP
- Optimized SQL queries to remove deadlocks and improve performance
- Converted a react-redux single page application into typescript

**SYSTEMS ENGINEER,  
RAYTHEON MISSILE SYSTEMS, TUCSON AZ**

**June 2014  
September 2015**

- Wrote an object oriented test application utilizing C++ hardware interfaces
- Designed the VHDL embedded firmware used to send real-time image data to tactical hardware
- Constructed python scripts to provide automation and optimize time spent on various tasks

## SKILLS

### TECHNICAL

- Node.js
- Typescript
- PostgreSQL
- Microsoft SQL Server
- Google Cloud, Azure and AWS
- Solidity
- NPM
- React and Angular
- Docker
- C#
- ASP.NET
- Git and Subversion
- Linux and Bash
- Ethereum

### BUSINESS

- Presenting opportunities for improvement
- Communicating ideas effectively
- Working efficiently with teams
- Producing accurate specifications
- Reliably verifying requirements
- Writing detailed documentation
- Meticulously testing and troubleshooting

### PROJECTS AND BUSINESSES

- Cold storage wallet
- Ethereum solidity trading bot
- Bitcoin alarm clock
- Ultra Agent Social
- Arduino gameboy
- Kinect tracker

## EDUCATION

BACHELOR OF SCIENCE, ELECTRICAL ENGINEERING  
ARIZONA STATE UNIVERSITY

August 2010  
May 2014

GPA: 3.9/4.0

- Member of the Golden Key International Honor Society dean's list all 8 semesters
- Graduated Summa Cum Laude