Peter DeMartini

Senior Software Engineer

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SUMMARY

Passionate Software Engineer with over ten years of experience building cutting-edge technology. Adept at learning new programming languages, technology, and applying them to both new and existing software. Travelled the world speaking at tech conferences and training engineers

SKILLS

- **Languages**: JavaScript / TypeScript / Node.js, Golang, Bash, Swift, Java, PHP

- **Technologies**: Apache Kafka, AWS, Azure, Digital Ocean, Docker, Elasticsearch, Kubernetes, MongoDB, MySQL, React, Redis

- **Methodologies**: Microservices, Serverless, Distributed Systems, Test Driven Development (TDD), Continuous Integration (CI)

EXPERIENCE

- **Terascope, LLC** — Remote / Phoenix, Arizona
  Lead Software Engineer — *May 2018 - CURRENT*
  - Worked remotely and on-site with teammates and lead a team of 5 engineers
  - Developed a data mesh platform called Spaces to process petabytes of data using a graph based query language
  - Developed a large-scale data processing system called Teraslice, using Apache Kafka and Elasticsearch
  - Increased performance of a distributed system to handle nearly a trillion messages a day
  - Revamped an existing system to support new, more powerful APIs, without breaking existing APIs
  - Improved stability of a production system by writing more effective tests and defining proper contracts between components
  - Enhanced development workflow, testing methods and automated continuous integration

- **Computes, Inc** — Remote – Arizona
  Software Craftsman & Co-founder — *Jan 2018 - Apr 2018*
  - Engineered a distributed & decentralized computing platform using Golang, Docker and IPFS
  - Built web applications using React to monitor jobs and work queue statistics in real-time
  - Improved views and beta sign-ups by 10x by designing computes.com website and marketing illustrations
  - Built a conflict-free decentralized queuing system that is resilient to unstable workers and network environments
  - Filed provisional patents for distributed and decentralized technology
  - Worked remotely and on-site with teammates

- **Citrix Systems, Inc** — Tempe, Arizona
  Staff Software Engineer — *Mar 2014 - Dec 2017*
  - Built the Internet of Things (IoT) platform, Octoblu, using technologies such as Node.js, Golang, and Docker
  - Scaled an Internet of Things (IoT) messaging system to handle millions of messages per hour
  - Slashed our deployment time to less than 3 minutes, allowing our team to deploy fixes and new versions of our microservices safely
  - Delivered cross-platform Internet of Things (IoT) adapters for macOS, Linux, RaspberryPi, and Windows using Golang
  - Developed an automation system to test, build and deploy thousands of projects against production servers and services
  - Enabled users to efficiently manage thousands of IoT devices and their complex interactions using React, Redux, and Angular
  - Built over 500 actively used open-source libraries, microservices, and desktop & mobile applications
  - Travelled around the world competing in hackathons and speaking at conferences

- **Superlative Code**   Grass Valley, California
  Owner & Lead Software Engineer   *Nov 2011 - Jan 2015*
  - Organized clients and delivered projects for small and medium-sized businesses
  - Developed full-stack web applications using PHP, Node.js and JavaScript
  - Spearheaded a Github Resume building platform called Gitto

- **SierraCRM**   Grass Valley, California
  Senior Software Engineer   *Feb 2011 - Aug 2014*
  - Developed and planned business automation software
  - Travelled and worked remotely for clients building custom CRM & business automation solutions
  - Worked with SugarCRM customers to customize and improve their business process

- **Miwall Corp**   Grass Valley, California
  Web Developer & IT   *Feb 2010 - Feb 2011*
  - Streamlined and automated database entry for thousands of products
  - Designed and developed an online store

EDUCATION

- **DeVry University**   Elk Grove, California
  Studied web development to bootstrap my career but withdrew to work full-time   *Jul 2009 – Oct 2012*

OPEN SOURCE PROJECTS

- **Teraslice:**
  A distributed computing platform for processing JSON data

- **Octoblu:**
  Open Source Internet of Things (IoT) platform for automating connections

- **Beekeeper:**
  A flexible and straightforward deployment management tool built in Node.js and Golang

- **Computes:**
  A cross-platform Golang daemon for distributing computation across a network of machines

- **Meshblu:**
  Open Source Machine-to-Machine (M2M) messaging system using technologies like Node.js, MongoDB, ElasticSearch, and Redis

- **HTML5-to-PDF:**
  A popular Open Source HTML5 PDF generator for Node.js

- **Gitto:**
  A Github resume networking platform using MongoDB, Express, Angular, and Node.js (MEAN) stack

SPEAKING ENGAGEMENTS

- **NodeSummit**   San Francisco, California
  Delivered a talk about microservices architecture and philosophy   *Jul 2017*

- **Citrix Synergy**   Orlando, Florida
  Trained a group of 40 Citrix partners about building a Smart Conference system   *May 2017*

- **ServTech**   Berlin, Germany
  Pitched the use cases of Internet of Things (IoT) within Citrix and what it means for customers   *Jul 2015*

- **SignalConf**   San Francisco, California
  Spoke about why the Internet of Things (IoT) is so revolutionary and important for business   *May 2015*