Joseph Puglisi

joe@puglisij.com | +1-631-891-7100 | linkedin.com/in/pugj/

EXPERIENCE:

Technology Consultant
Stealth Financial Firm *2020 – Present*

- Wrote 12 core libraries and abstraction layer using field programmable gate arrays for data scientists to perform transactions in nanoseconds
- Achieved 99.9% uptime for server and software upgrades for eight years
- Created development environment for data scientists using R, python, and Jupyter notebooks allowing real-time in-browser code collaboration, increasing committed lines of code by 400% in the first six months

Director of Software Engineering
Stealth Financial Firm *2016 – 2020*

- Guided a team of 10+ software engineers through one-on-ones, focusing on technical skill development, project management, and engagement
- Led a diverse engineering team in developing a data pooling tool with real-time analytics, integrating data from 300+ sources to produce modellability reports for FRTB compliance; achieved a twofold rise in securities modellability and a clear strategy for stakeholders

Senior Software Engineer
WorldStarHipHop *2015 – 2016*

- Built large language models to monitor and respond to up to 100 social media conversations per day to detect cultural sentiment
- Spearheaded the integration of machine learning technologies to amplify website engagement, yielding a 4-minute average mobile time-spend, outperforming industry standards, and positioning the website among the top 500 most visited websites in 2015

Founder | Director, Software & Networking
Joseph Puglisi Consulting *2011 – 2014*

- Developed and licensed digital advertising platform in C#, PHP, and Perl to manage digital marketing campaigns, resulting in continual revenue growth of 2x over 2 years
- Architected and built an Email Service Provider for Windows Server and Linux with reputation management on endpoints for spam filtering and tracking handling 6 million emails per day
- Wrote whitelist management system to improve reputation of IPs across large email providers; increased IP whitelisting by 10x
- Authored an A/B testing software suite to improve advertising outcomes by 10x based on reputation, open rates, conversions, and other key performance indicators
- Orchestrated strategic initiatives for 10 high touch client accounts, driving a 15% increase in revenue to surpass the ten-million-dollar milestone within six months

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Co-Founder | Director, Research & Development

SBJ Media   *2007 – 2011*

- Programmed reputation system for advertising assets using machine learning and heuristics to facilitate data-driven decision making and improve delivery rates by 90% for client emails and SMS messages
- Evaluated data from purchasing history and engagement rates to predict future customer engagement with 90% accuracy
- Moved all Selenium testing environments to GPU workers to improve rendering times by 100x
- Migrated processing from CPUs to orchestrate workloads to GPU workers to help email encryption signatures using Nvidia K2, Cuda, and ZMQ
- Coached and mentored developers by having routine one on one meetings, reviewing code, and debugging

Software Developer

Innovative Marketing   *2004 – 2007*

- Led team of 6 junior developers to create in-house CDN
- Liased with 400+ business users across departments and geographies to track the development of individual teams using Jira

SKILLS:

Programming Languages: C, C++, C#, Elixir, F#, Go, Haskell, Java, JavaScript, MATLAB, OCaml, Objective-C, Perl, PHP, Python, Rust, Ruby, Scala, Shell, VB
Version Control: Git, SVN, CVS, GitHub, GitLab, Gerrit, Gitorious, Bitbucket
Continuous Integration: Jenkins, Circle CI, Travis CI, TeamCity
Project and Bug Trackers: Jira, Bugzilla, Redmine, Trello, Confluence, Smartsheets
Build Tools: make, CMake, Gradle, Ant, Maven, NAnt, MSBuild
IDEs: Visual Studio, Eclipse, Xcode, and KDevelop
Configuration Management Tools: Ansible, Chef, Puppet, SaltStack, NixOS, Terraform
Diagramming Tools: Lucidchart, Visio
Tools and Frameworks: Airflow, AWS, Azure Cloud, BIRD, Cilium, Cisco, Docker, EBPF, Fortinet, GCE, IBM, Kafka, Magento, CouchDB, Hadoop, MySQL, MSSQL, PostgreSQL, Redis, Selenium, Playwright, Zookeeper, ZMQ, RabbitMQ, Percona, React, Angular, Vue, Solr, ElasticSearch, Logstash, CUDA, OpenMP, MXNet, ONNX, H2O

EDUCATION:

B.S. in Computer Science

Stony Brook University   *Stony Brook, NY*