SHYAM PADIA

+1 (857)-294-9264 — shyam.padia930@gmail.com — Boston, MA
crypticsoul.dev — github.com/crizzy9 — linkedin.com/in/shyam-padia

Education

Northeastern University, Khoury CCIS — *Boston, MA* — **Sept 2017 - Dec 2019**
Master of Science in Computer Science — GPA: 3.2/4
University of Mumbai, Fr. CRCE — *Mumbai, India* — **Aug 2012 - June 2016**
Bachelor of Engineering in Computer Engineering — GPA: 7.4/10

Work Experience

MosaicApp — AI Technical Lead — *San Francisco, CA* — **Aug 2026 - Present**
- Redesigned Chello's AI architecture, improving performance by 25% and cutting costs by 60%
- Redesigned Chello's agent cache and added subagents and task management to its LangChain harness
- Enabled tiered billing for Chello by integrating Stripe and MonetizeNow
- Implemented dynamic model routing based on query complexity to reduce token usage and cost

Intuit, Personalization — Senior Software Engineer — *Mountain View, CA* — **Jan 2025 - Aug 2026**
- Built an AI agent orchestrator harness akin to Hermes Agent with LangChain automating RTB, Oncall and DevOps workflows
- Architected unified user profiles with multi-source data ingestion, generating real time user embeddings on GPU-optimized EMR
- Led cross-regional team building unified recommendation platform with Vespa, gRPC and OpenSearch, replacing legacy systems
- Developed an AI marketing agent with SymphonyAI, LangChain and MCPs, automating campaigns and cutting go-live by 90%
- Led 5 engineers building bulk content system with dynamic templates and audience segmenttation, increasing capacity by 1400%
- Built LLM-powered content generation pipeline automating end-to-end marketing workflows, improving time-to-market by 75%
- Created MCP server enabling AI-powered marketing campaign creation with real-time generation and automated deployment

Intuit, Personalization — Software Engineer 2 — *Mountain View, CA* — **Jan 2021 - Jan 2025**
- Engineered self-serve analytics platform with PySpark/AWS EMR and React, reducing incidents and impression loss by 40%
- Developed RAG AI assistant with HuggingFace and LangChain for marketing content generation, reducing authoring time
- Implemented AWS Personalize on clickstream data, serving higher quality recommendations with 20% reduced API latency
- Built Kafka event consumer pipeline for targeted offers, generating $10M incremental revenue through dynamic audience targeting

Intuit, QuickBooks — Software Engineer 1 — *Mountain View, CA* — **Jan 2020 - Jan 2021**
- Engineered segmentation pipeline using AWS Glue and PyArrow to identify eligible cohorts for targeted pricing campaigns
- Integrated Price Simulation and Campaign Execution components for managing Product Pricing, delivering $20M cost savings
- Developed full-stack pricing management platform using React, Spring Boot and AWS increasing operational efficiency by 50%

Intuit, TurboTax — Software Engineer Intern — *San Diego, CA* — **May 2019 - Aug 2019**
- Developed OCR document processing for W2 form upload in TurboTax onboarding, reducing tax preparation time by 20%
- Integrated ML Decision Engine for NLP intent classification, replacing third-party API and reducing latency by 30%

Intuit, TurboTax — Software Engineer Co-op — *San Diego, CA* — **May 2018 - Dec 2018**
- Engineered a rule based case dedup service for Intuit Help Portal, improving response time by 45% and duplicates by 7%
- Developed Smart Fields with React and PHP to automate content publishing, reducing support cases by 10%

VoterCircle — Software Developer — *Bangalore, India* — **Nov 2016 - May 2017**
- Integrated ElasticSearch contact matching algorithm for voter registration with social media profiles, improving outreach by 10%
- Developed campaign outreach platform using Meteor.js and Angular, improving canvassing efficiency and voter turnout by 15%

Technical Skills

Languages: Python, Java, JavaScript, TypeScript, Go, Nix, Lua, SQL, Scala, C/C++
ML/AI: PyTorch, TensorFlow, Hugging Face, LangChain, OpenCV, Vespa, NLTK, ScikitLearn, Keras, Gensim
Frameworks: Spring Boot, React.js, HTMX, Astro.js, Django, Node.js, REST, gRPC
Big Data: PySpark, Kafka, Hadoop, Pandas, PyArrow, Hive, Beam, Flink, EventBus, RabbitMQ
Cloud: AWS (SageMaker, Lambda, Glue, Personalize, EMR, OpenSearch, Athena, Redshift), Docker, Kubernetes
Databases: PostgreSQL, DynamoDB, MySQL, SQLite, MongoDB, Redis, ElasticSearch, Vector Databases
Courses: NLP, Reinforcement Learning, Robotics, Machine Learning, Artificial Intelligence

Projects

Naavik - Automated Job Search Platform — **Feb 2026**
Lumino - NixOS based Declarative Homelab Platform — **June 2025**
Omnidirectional Autonomous Robot with Computer Vision — **June 2024**
Reinforcement Learning Transfer for Robotic Manipulation — **Oct 2019**
Multi-Track Music Generation with Transformer Architecture — **Apr 2019**

Open Source Contributions

Vicinae - Desktop Application Launcher — **2025**
Mopidy - Python Music Server — **2024**