MICHAEL KOROSTELEV

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SKILLS

- Program Management: SDLC, Resource Planning, Agile Methodologies, Project Management
- Expert Level Technical Skills: Hands-on Technical Leadership, Cloud Architect, Serverless Computing, AWS, CloudFormation, Lambda, APIGateway, DynamoDB, CloudFront, CodeBuild/CodePipeline, Kinesis/Firehose, Athena, etc. NoSQL Databases, Graph Databases, Distributed Systems, Security, Microservices, Event Driven Architecture, Async Computing, Containerization, JavaScript, TypeScript, Rust, Python, Bash

PROFESSIONAL EXPERIENCE

CYCLIC.SH (CYCLIC SOFTWARE)   **Remote**
Co-Founder, CTO   **2021-Present**
- Strategic management and development of cyclic.sh as cloud serverless PaaS product
- Scaled from inception to over 1m deployments, over 100k signups, system handling workloads from 2k+ daily active users and 40k+ monthly active hosted web applications
- Developed fully serverless AWS cloud-native system and infrastructure, active-active in 3 cloud regions that automatically orchestrates deployment of Node, Python and Go projects from version control to 18+ cloud regions, user facing dashboards to manage CI/CD, logging & monitoring, etc
- Fully instrumented analytics integrated with observability tools like Honeycomb, and analytics and CRM tools including Segment, Mixpanel, Customer.io, Stripe, etc to monitor and optimize performance, automate CRM and billing, fraud detection and mitigation in software used by tens of thousands of free-tier users
- Open and closed source software development in JavaScript, TypeScript, Rust

BLACK KNIGHT FINANCIAL SERVICES   **Remote**
Chief Architect - AIVA   **2020-2021**
- Oversaw all technical aspects of automated document processing pipeline product handling over 1 million pages/day of mortgage documents for multiple top US banks
- Led cross-functional remote team of 30+ software engineers, scientists at innovation focused business unit
- Managed ~ $250K+ monthly cloud spend after achieving 40% reduction by devising solutions in OCR process concurrency and developing approach to migrate AI model inference to serverless functions
- Worked closely with external AWS technical teams as a development partner on new AWS Textract product to expand machine learning capabilities
- Led the team through SOC2 and PCI audits for new product, exceeding resiliency and security standards
- Managed on-ramping remote offshore QA team integration into development process, collaborated with QA leaders to build automation and train team to use automated testing framework
- Collaborated with clients and external stakeholders to establish secure API integrations between banking software, loan origination systems, and our AI tools

Applications Development Supervisor   **2019-2020**
- Led an autonomous team of 5 backend and frontend engineers through full product development lifecycle of correspondent lending platform product from inception stages as POC through MVP and finally production and transition of product and onboarding a new team
- Worked closely with product managers, customer implementations team, to develop book of work and estimate project timelines in an agile environment

- Mentored multiple teams in adopting new devops practices, AWS serverless technologies and architecture patterns including backends for frontends, microfrontends and microsevervices

HEAVYWATER / BLACK KNIGHT FINANCIAL SERVICES   Philadelphia, PA
Senior Platform Engineer   2019
- Designed and developed change management system and process framework to fully automate and track the release management process from user story to production through integrating Rally Agile, GitHub, AWS CodeBuild/CodePipeline, Slack, ServiceNow, Synopsis, and other static analysis tools.
- Developed models to quantitatively estimate developer productivity based on data exhaust from change management system during a high growth period (10 - 30+ engineers over 6 months) post company acquisition
- Created and implemented standards for applications development including automated data schema enforcement during integration testing of NoSQL database (AWS DynamoDB)

LEGAL SCIENCE LLC   Philadelphia, PA
Head of Product Development, Senior Engineer   2015-2019
- PI for 2018 NSF SBIR Phase I grant "Machine Assisted Comparative Policy Analysis in Public Health"
- As first engineer at legal tech startup, working closely with founders, CTO and legal team and clients to develop concepts, features and establish new processes, grant proposal writing
- Developed software used by legal researchers to annotate legislature to 'quantify' the law for developing machine learning approaches for legal analysis
- Developed supervised machine learning models to annotate and classify legal text based on training data collected with annotation tool

TEMPLE UNIVERSITY
Adjunct Faculty, Program Mentor, Research Assistant, Teaching Assistant   2009-2015
- Adjunct Faculty - Development and instruction of Engineering Design Principles course for Tyler School of Art & Architecture. Working with art students to take advantage of physics and engineering in creative designs
- Research Assistant - Research and software development in computer vision, muti-view camera calibration, simulation algorithms for aerial target tracking applications. Contributed to proposal writing.
- Program Mentor - Apps & Maps Design Studio - Develop application project proposals, grant-writing, managing project teams at youth technology incubator. Projects featured in public print and television media

OTHER EXPERIENCE AND PROJECTS
- Consulting work on startup mvp/poc projects including
    - automated patient health monitoring via SMS w/ Fox Chase Cancer
    - hardware design and web dashboard for child tracking gps module w/Brams Inc.
    - posture and stability analysis data capture w/ Temple College of Public Health
    - streaming media consumer analytics user on-boarding w/ Centris Marketing Science
- Early career 3+ years working at local publishing and printing shops as graphic and web designer

EDUCATION

TEMPLE UNIVERSITY, COLLEGE OF ENGINEERING   Philadelphia, PA
PhD in Engineering (Candidate, ABD)   2011-2015
Master of Electrical Engineering;   2009-2011
Bachelor of Electrical Engineering;   2005-2009