REFERENCES

Available upon request

(phone omitted) mike@msol.io Portland, Oregon (remote) CONTACT Senior Staff Software Engineer @ Twitter in San Francisco . . July 2014 to November 2023 PROFESSIONAL EXPERIENCE • Served as Group Technical Lead (architect+tech lead) for GraphQL and Strato teams • Served as Technical Lead for the Strato application platform and team of 10 engineers • Set technical direction, strategy, and roadmap, then led execution of those plans • Built and operated self-serve internal cloud function service ("StratoServer") serving over 500,000,000 operations/second, which drastically improved product development • Developed query language to efficiently compose datasets on the fly & enforce rules • Led GraphQL from idea through implementation through proposal to staffed team • Designed/implemented auto-generation of GraphQL API based on reachable data • Led 200+ interviews for engineers and managers. Served on promotion committee. • Developed (and taught) technical training curriculum, classes, materials, and videos • Built and drove adoption of simple, reusable framework for testing live services Helped build hosted streaming event processing system for Kafka and DistributedLog • Carefully reviewed thousands of pull requests and code changes • Wrote, reviewed, and consulted on dozens of substantial design documents • Improved loading performance of company telemetry by over 200% • Developed the Social Graph Service for reading/writing social graph edges at scale Software Engineer @ Elevate (formerly MindSnacks) in San Francisco . . . . . 2013 to 2014 • Led backend engineering web API team (Python/Django, Node.js) • Built and scaled backend powering Elevate, once #2 app in App Store (Ruby on Rails) • Developed Elevate Android app: app logic, data model, UI, server integration Researcher; Lab Instructor @ University of Idaho in Moscow, Idaho . . . . . . 2011 to 2012 • Undergraduate research in evolutionary computation; Data Structures & CS 101 labs SKILLS AND **Programming languages:** Scala, TypeScript/JS, Python, Java. Experience in many others. Knowledge Tools & skills: Team & tech leadership, Git, GraphQL, distributed systems, JVM, NoSQL, Kafka, system design, parsers, compilers, Android, MySQL, PostgreSQL, Linux, testing, scrum, agile, design patterns, algorithms, software architecture, code review, mentorship Conference Transpiling GraphQL instead of writing customized server code - GraphQL Europe 2018 **TALKS** Transpiling GraphQL instead of writing customized server code – Scale by the Bay 2018 Strato: Twitter's virtual database powered by microservices – Scale by the Bay. ....2017 Sunken Isles – iOS, Android. Play choice-driven audio adventure stories . . . . . August 2017 Apps **SolarWriter** – *iOS, Android.* Connect eReader to keyboard to type outdoors . . . . *June 201*5 Solomon, M., Soule, T., and Heckendorn, R. "A Comparison of Communication Strategies RESEARCH in Cooperative Learning." GECCO conference proceedings (2012), ACM. .......... 2012 **PUBLICATIONS** • Earned Best Paper in the GECCO ALIFE (artificial life) track **EDUCATION** The University of Idaho in Moscow, Idaho • Summa cum laude. 4.0 cumulative GPA. Completed University Honors Program.