

Kyle Marek-Spartz

Engineering software, reliability, and collaboration.

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I find again and again that improving how we work yields better returns than working on the software directly, so I aim to do that as much as possible. I'm a big believer in retrospectives, 1-1s, pairing, TDD, and continuous delivery. I have found great value working with cross-functional and distributed teams.

Skills

- Python (Flask, SQLAlchemy, Alembic, NLTK, matplotlib, boto, MyPy)
- Ruby (Rails, Sinatra, Resque, Sidekiq, JRuby)
- JavaScript
- Haskell (Hakyll, hledger, pandoc)
- R (RStudio, tidyverse)
- SQL (Oracle/MySQL/Postgres)
- Kafka, ELK, Redis
- Docker
- Git (GitHub, GitLab)
- Travis CI
- Ansible, Puppet
- Heroku, DigitalOcean
- Twilio, AWS S3
- Pingdom, PagerDuty, New Relic
- Data analysis: Time series, speech processing, recommender systems

Experience

Granicus (formerly known as GovDelivery), 2014-Present

Site Reliability Engineer, 2017-Present

Founding member of SRE team. Guided team toward engineering and agile best practices. Increased adoption of monitoring tools by streamlining change process.

Software Engineer, 2014-2017

Led cross-department team to promote collaboration, diversity, distributed/remote team skills, and mentorship throughout the company.

Reinforced process improvements by formalizing a definition of done, especially around deployment, documentation, monitoring, load testing, measurement, and data practices. Increased release reliability by investing in test reliability and release frequency.

Enabled customers to segment and engage citizens based on activity and outcomes using a streaming data architecture. Increased subscriber import reliability and performance to reach over 100 million subscribers. Prototyped account monitoring to classify client health.

Celador, 2013-Present

Co-Founder

Consulted organizations on data science, development and maintenance of web and mobile applications, IT management, business practices, and organizational culture change.

University of Minnesota College of Pharmacy: Speech Informatics Lab, 2012-2014

Research Assistant

Speech and cognition research. Primary developer, REST server and web application for psychological examination, data collection, and analysis. Integrated server with Twilio, iOS, and Windows clients.

University of Minnesota Computer Science and Engineering, 2012-2013

Research Assistant, **GroupLens**: experimental research on propagation of information between language versions of Wikipedia, 2012-2013

Teaching Assistant, CSci 1001, Overview of Computer Science, Spring 2012

University of Minnesota Undergraduate Research Opportunity Program (UROP), 2011-2012

Propagation of language change through social networks, diffusion of lexical innovations in emergent social networks via social brokerage / weak ties.

University of Minnesota MobileApp Challenge, 2011-2012

InContext, a language learning application focused on vocabulary development and retention. Vocabulary list generation, adaptive testing, reading resource suggestion targeting learner. Led Python (web.py) REST server development, assisted iOS application development.

University of Minnesota Aerospace Engineering and Mechanics, 2010-2011

NASA Minnesota Space Grant, 2010-2011

- *Team Lead*, RockSat-C Suborbital Rocket Payload, 2011
- *Research Assistant*, High Altitude Ballooning Team, 2010-2011

Teaching Assistant, AEM 1901, Weather Balloon Seminar, Fall 2010

Publications, Presentations, and Posters

System for Automated Speech and Language Analysis (SALSA) (demonstration paper [[pdf](#)], poster [[pdf](#)]). **Kyle Marek-Spartz**, [Benjamin Knoll](#), [Robert Bill](#), [Thomas Christie](#), [Serguei Pakhomov](#). **Interspeech**, September 2014.

Computerized Language and Speech Analysis to Measure Effects of Anti-Epileptic Drugs on Cognition (poster [[pdf](#)]). [Serguei Pakhomov](#), **Kyle Marek-Spartz**, [Robert Bill](#), [Benjamin Knoll](#), [Thomas Christie](#), [Angela Birnbaum](#), [Ilo Leppik](#), [Susan Marino](#). 3rd International Congress on Epilepsy, Brain and Mind, April 2014.

Construction of the Gmane corpus for examining the diffusion of lexical innovations (workshop paper, [[pdf](#)]). **Kyle Marek-Spartz**, [Paula Chesley](#), [Hannah Sande](#). Words and Networks: Language Use in Socio-Technical Networks (WON 2012) Workshop at 2012 ACM Web Science Conference, June 2012.

Education

MBA, (*Enrolled*), Hamline University, estimated graduation: Summer 2019

Linguistics B.A., with minor in Computer Science, University of Minnesota

Organizations, Service, and Honors

[Leadership Saint Paul](#), [Saint Paul Chamber of Commerce Foundation](#), 2016

- Met with leaders throughout the east metro from industry, government, and charitable organizations. Toured facilities to learn how the city ticks. Worked with a focus group to support a charitable organization in an advisory capacity.

Co-Organizer, [HaskellMN](#) (user group), 2014-Present

Founder, Planning Committee, Adviser, Minnesota Undergraduate Linguistics Symposium, 2012-2014

[Phi Beta Kappa](#) (ΦBK), 2013

Secretary, University of Minnesota: Society Of Undergraduate Linguists, 2011-2013

[National Merit Scholar](#), 2009-2013

Amateur Radio: KDØGTK, general class license, [ARRL](#) member