

Alexander Conrad Nied

Preferred Name: Conrad

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Objective

Software Engineer, full stack or front-end with connections to data science or UX research.

Skills

Programming **Java, Python, HTML/CSS/Javascript**, Matlab, Android
MySQL, MongoDB, Django, PHP, D3, JQuery, Bootstrap
LaTeX, Tableau, Raster & Vector Graphic Design

Methods Full-Stack Web Development, Big Data, Machine Learning,
Network Analysis, User Studies, User-Centered Design

Education

M.S., Computer Science and Engineering *University of Washington*
Thesis: Computational Analysis of Communities & Botnets presenting Alternative Narratives of Crisis
Events on Social Media. (Advisor Kate Starbird, kstarbi@uw.edu) 2016

B.A., Computer Science, *Boston University*
Minor: Anthropology 2011

Experience

Software Engineering Intern, Twitter 2016
Developed an alternative write pathway for the Product Safety System that checks every single tweet & user action for spam and harassment. My new distributed system solved the previous overwrite issues and aggregated writes, reducing volume by over 50%, saving over 3k\$/mo.

Research Assistant, University of Washington 2013 - 2016
Collected and analyzed social media posts spreading rumors during crisis events using social network analysis. I built a system that allowed other researchers to easily generate graphs & standard analyses of the data from n-gram distributions to visualizing time-series of user activity.
My other notable projects have included prototyping, building and evaluating systems that provided users feedback on their personal communication in email and messaging.

Lead Teaching Assistant, University of Washington 2013-2016
Taught quiz section, organized course logistics, built testing framework to evaluate student code with integration tests on Gitlab, mentored new TAs. In all, taught graded and stepped through problems for over 650 students across 6 quarters of Data Structures and Parallelism.

Software Engineering Intern, Google 2014
Prototyped and evaluated new ways for users to gesture on the Android keyboard.

Clinical Research Coordinator, Massachusetts General Hospital 2011-2013
Conducted neuroimaging experiments of participants doing speech-based tasks. I built a user interface to open the black box of our analyses so the non-technical researchers could analyze the data and generate publication-ready figures at multiple stages. I implemented machine learning graphical models to analyze activity areas of the brain.