

Stefan Bund, Curriculum Vitae

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Education

University of Michigan, Master of Applied Data Science. Class of 2024. Mastery of the data science cycle: experimental design, data manipulation, data visualization, causal inference, supervised and unsupervised learning. Research specialization in predictive algorithms for volatile, announcement-driven markets. Expertise in:

- supervised learning: Bayesian Networks, K-Neighbors
- unsupervised learning: [Graphical Lassos](#), [Cross Validation](#), [affinity clustering](#), [topic modeling \(latent semantic indices, non-matrix factorization\)](#)
- data mining: laplace clustering
- data visualization (altair, matlab, plotly, seaborn)
- data science communication
- pandas, data preparation, manipulation, financial time series:

Claremont Graduate University, Master of Science, Information Systems and Technology. Claremont California. Class of 2006. 3.5 GPA. Emphasis on large scale software systems, cloud computing infrastructures, systems analysis, project management, object-oriented design, machine learning algorithms (knowledge discovery – classification, rule discovery, recommendation systems).

Colgate University, Bachelor of Art, Hamilton, New York. Class of 1995, Cum Laude. Studio Art

Integrated Data Science, Machine Learning and Algorithmic Trading Systems

Rad Disco, 2017 – now. Built a systematic trading system for a family office. Developed a supervised algorithm for trading cryptocurrencies. Wrote recommendation systems for trade discovery. Applied software engineering methods for machine learning pipelines. Emphasis on JavaScript, Python, Amazon Web Services. Company website, raddisco.com. Skill emphasis: node.js, amazon web services (EC2, S3, Cloud9, DynamoDB, sqllite, ubuntu linux, python, pandas, visualization via matlab, altair, seaborn).

Professional Software Engineering Experience

Tha Rock, LLC, 2014 – 2016. Programmed and applied software engineering methods, in Objective-C to create an events ecommerce system for the IOS/ iPhone platform. Used Java to create an analytics backend for compensation and systems monitoring. Skill emphasis: objective-c for iphone, amazon web services (dynamodb, sns, APNS, cognito, oauth, federated authentication)

Next Acropolis, LLC, 2008 – 2012. Created a software-as-a-service marketplace for talent recruiting between corporations and universities. Created a search-based platform to index student research projects and recommend career paths. Skill emphasis: java server pages, tomcat, amazon web services (s3, simpledb, JSON databases)

Ascension LLC, 2006 – 2007. Used Adobe Flex to create a software-as-a-service experience for mortgage preparation and CRM for financial products and services professionals. Skill emphasis: Adobe Flex, php/mysql, linux clusters

Alliance Imaging Corporation, 2005-2006. Supplied an algorithm to optimize logistics and distribution scheduling. Used one year of training data to build a recommendation algorithm for labor scheduling,

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employing new heuristics. Created a 10% improvement in labor efficiency. Skill emphasis: java, mysql, SQL

Keck Graduate School of Life Sciences, Claremont, CA., 2003-2004. Produced an open-source version of Array Express, an J2EE-based software suite for XML transfer of proteomics research. Adapted the original program from an Oracle database system to a MySQL system, which reduced the deployment cost for participating labs. DOI, <http://dx.doi.org/10.2165/00822942-200403040-00008>. Skills Emphasis, SQL, Java, software development

Information Systems Administration (1996-2000)

Served as a data analyst for an IT contractor with clients in Federal Government (FBI, ATF, DOJ), clients at major Bay Area Law Firms (Skadden, Hancock/Bunshoft, others). Skill emphasis: oracle systems administration, unix, certified an Oracle DBA on oracle 8, Excel

Lecturer Posts, Academia

Instructing software engineering methods and management information systems courses for undergraduates:

- California State Polytechnic University (Cal Poly), 2014 - current
- Riverside Community College, 2015-2018
- Pepperdine University, Graziadio School of Business, 2015-2018
- Coastline Community College, 2009- current