Zane Rankin

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PROFESSIONAL EXPERIENCE

Uptake Technologies – Chicago, IL
Data Scientist   Feb 2019 – present
- Deployed supervised and unsupervised learning techniques using both streaming and batch scoring architectures on Uptake's cloud-based IoT platform, empowering customers delivering reliable and renewable energy to millions of households
- Collaborated with external business stakeholders to develop new models and improve precision and recall, increasing user acceptance of grid reliability alerts from 50% to 80%
- Managed complex dependencies between engineering, product, and sales teams, concurrently delivering three applications on aggressive timelines that optimized inventory logistics, human resource allocation, and electrical grid reliability
- Developed clear and concise calculation, reporting, and visualization of customer KPIs in web applications, deriving actionable insight from terabytes of data in Kafka and Postgres databases
- Earned department accolades for identifying and modeling new weather and geospatial vegetation data sources to predict electrical outages

Institute for Health Metrics and Evaluation – Seattle, WA
Researcher – Simulation Sciences   Sept 2017 – Feb 2019
- Supervised data analysts to extract large health datasets and develop regression and machine learning algorithms
- Developed disease components within open source Python simulation to model health interventions
- Collaborated with software engineers and health experts to ensure application quality and scalability
- Created interactive data visualizations to present cost-effectiveness estimates to non-technical stakeholders

Post-Bachelor Fellow (Quantitative Analyst)   Sept 2014 – Sept 2017
- Modeled population health burden of anemia and blindness using frequentist and Bayesian models
- Developed R software used by dozens of analysts to streamline census and survey data extraction across institute
- Supported creation of the Healthcare Access and Quality Index, a composite measure of health system performance

EDUCATION

University of Washington   *GPA 3.72*   2017
MPH | Health Metrics and Evaluation
Spatial Epidemiology, Biostatistics, Implementation Science
Practicum: Analyzed chronic disease comorbidity for Mexico's Instituto Nacional de Salud Pública
Thesis: *Impact of Development Assistance for Health on Maternal and Child Health*

University of California, Berkeley   *GPA 3.96*   2014
BS Environmental Science | BA Integrative Biology   *Summa Cum Laude*
National Merit Scholar, Robert C. Byrd Scholar, Dean's Honors, Babcock Prize for Excellence in Environmental Sciences
Thesis: *Life history diversity and resiliency of steelhead trout: A case study from the Pescadero Watershed*

SKILLS

Data Analysis/Modeling/Simulation: Python (pandas, scikit-learn), R
Interactive Data Visualization: Plotly, Dash, R Shiny, Tableau, Folium
Deep Learning: Tensorflow
Data Engineering: SQL, APIs, web scraping (Beautiful Soup)
Data Science DevOps: Git, Docker, pytest, Jenkins, TravisCI
Parallel/Cloud Computing: Dask, Domino Data Labs, Heroku, AWS Elastic Beanstalk

LEADERSHIP & INTERESTS

Ultimate Frisbee – Captain, Coach, Professional Athlete, World Champion
Volunteering - Cooking Matters – bilingual nutrition and cooking classes for low-income families
President & Manager- Berkeley Student Cooperative