


K. BODIE WEEDOP

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EDUCATION

University of Georgia <i>M.S. - Bioinformatics</i>	2019-2021
Utah State University <i>B.S. - Biology</i>	2014-2017

SKILLS

Golang, JavaScript, NodeJS, PHP, Python, R, Ruby
CakePHP, React, Vue, React, Ruby on Rails
CI/CD, Docker, Kubernetes
Amazon Web Services (AWS)

CERTIFICATIONS

Certified Kubernetes Application Developer <i>Certification validation number:</i>	February 2022 <i>LF-1dsaj21rh3</i>
AWS Certified Developer - Associate <i>Certification validation number:</i>	September 2021 <i>LTD3VKFJGBF4QT3Y</i>

EXPERIENCE

RTI International <i>Systems Programmer III</i>	May 2021 - Present <i>Research Triangle, NC</i>
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- Active developer on **RTI Merge**, a Vue web application allowing RTI's workforce to interact cloud-based, containerized data science tools.
- Contributed, maintained, and updated frontend and backend components of CakePHP site, **PhenX Toolkit**, to provide recommended data collection protocols to an international group of researchers conducting biomedical research.
- Development of map application (itcpchildwellbeing.org) for the U.S. Department of Health and Human Services using Vue, Leaflet, and GeoServer.

University of Georgia <i>Graduate Research Assistant</i>	August 2019 - May 2021 <i>Athens, Georgia</i>
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- Analyzed sequence data from influenza samples to extract feature data for a statistical learning model.
- Built a neural network using Python package TensorFlow to predict dominant strains of influenza from sequence data.
- Completed Master's coursework in topics of genome analysis, bioinformatics, and algorithms.

Northeastern University <i>Bioinformatics Software Developer - Lotterhos Lab</i>	September 2018 - July 2019 <i>Nahant, Massachusetts</i>
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- Functioned as systems administrator for CentOS-based high-performance computing cluster.
- Built Jekyll (Ruby/Liquid) based website for lab use (numsc-corefacility.github.io/sharedLabSpace).
- Built software pipeline in R and Bash to perform analysis of whole genome data and provide insights on population structure, outlier SNPs, and other loci possibly responsible for local adaptation of the Eastern Oyster.

PUBLICATIONS & WRITINGS

Published

- Borchering, R.K., Gunning, C.E., Gokhale, D.V., **Weedop, K.B.**, Saeidpour, A., Brett, T.S. and Rohani, P., 2021. Anomalous influenza seasonality in the United States and the emergence of novel influenza B/Victoria viruses. *Proceedings of the National Academy of Sciences*,
- **Weedop, K.B.**, Mooers, A.Ø., Tucker, C.M. and Pearse, W.D., 2019. The effect of phylogenetic uncertainty and imputation on EDGE Scores. *Animal Conservation*, 22(6), pp. 527-536.
- **Weedop, K.B.**, Mooers, A.Ø., Tucker, C.M. and Pearse, W.D., 2019. Preserving evolutionary history with improved confidence. *Animal Conservation*, 22(6), p. 541.