Neil Klenk

nklenk@utexas.edu
https://github.com/nklenk/Resume
www.linkedin.com/in/neil-klenk
(713) 252-9506

RESEARCH & PROJECTS

Comparison of Classical and Bayesian Statistics
- Exploring the faults of the p-value
- Identifying Bayesian methods that determine significance when the p-value fails

Computational Identification of Polyketide Synthase
- Successfully completed the computational identification and analysis of Streptomyces sp. Mg1's polyketide synthase product including chemical structure, and deduced function
- Wrote a program in C that automated this process. It took an amino acid string as input, sent it through a Blosum62 matrix, and returned the presence and type of modules in the polyketide synthase

Co-Creator of Genomic Data Analysis Application
- Taught myself the Circos visualization suite, and applied it in a genomic analysis pipeline that we built in house
- Working remotely with an international team of doctors, geneticists, developers, and data scientists from the Middle East, India, and Europe

Co-Creator of Virtual Reality app
- Effectively worked with an international software development team
- Talked with VCs and investors while looking for funding

EDUCATION

The University of Texas at Austin, Austin, TX   *Graduation:*   December 2015
Bachelor of Science and Art in Biochemistry
- GPA 3.47
- Scientific Computing Certificate
- Computational Science and Engineering Certificate (Completed May 2016)
- Interdisciplinary Certificate in Innovation, Creativity, & Entrepreneurship

WORK EXPERIENCE

General Motors, Austin, TX   June 2016 – Present
Technical Analyst
- Working with an international team to reduce the frequency of mainframe job failures
- Writing python scripts to automate the creation of mainframe jobs
- Manage access to financial applications for our Brazilian region, communicating across the language barrier

SnorkelATX, Austin, TX   July 2015 – August 2017
Cofounder
- Established a snorkeling company in Austin, TX. Relocated to San Marcos, TX
- Worked on marketing campaigns, dealt with legal aspects, and lead tours

360 Foundry, Austin, TX   December 2015 – June 2016
Cofounder
- Applying 360 video to Real estate marketing in Austin and Dallas
- I was involved in everything from client acquisition to filming to editing

PROGRAMMING SKILLS

- Experienced in C, R, and python, with some experience with SQL, C++, C#, and Fortran 90
- Experienced Pandas, Numpy, Scipy.stats, Bokeh, Matplotlib (including geographical plots with Basemap), and Scikit-learn python packages
- Experienced in cluster computing in parallel utilizing MPI and OpenMP