

Résumé

I specialize in production-quality, open source research software with expertise in Python, Linux, high-performance cluster computing, and data analysis. I currently develop data science and bioinformatics tools for genomics research at the Pathogen and Microbiome Institute at Northern Arizona University. I am also interested in functional programming, AI, machine learning, ethics, philosophy, decision theory, natural language processing, and computational musicology.

Contact

Email	inbox.asanchez@gmail.com
Web	www.andrewsanchez.me
Github	github.com/andrewsanchez
Availability	andrewsanchez.youcanbook.me

Experience

Pathogen and Microbiome Institute	Software Engineer 2016-01-01 to present
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Bioinformatics software for pathogen genomics research at Northern Arizona University. Use of the Python scientific stack for quality control and curation of public genomic databases and automated analysis of species-based statistics and metadata. Communicate with PhD researchers to collaborate and build out research software.

Center for Ecosystem Science and Society	Software Engineer 2014-01-01 to 2016-01-01
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Image analysis, research and field work for ecological research at Northern Arizona University. Image processing tools to analyze how native grasses respond to different climates.

Fluent Forever	Technical Operations Admin 2016-01-01 to present
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Automation, quality assurance and consulting for the most crowdfunded app in Kickstarter and Indiegogo history. Programming APIs of major platforms such as Zendesk, ActiveCampaign, WooCommerce, Indiegogo and Google products for task automation and structuring, processing and analyzing data that informs and supports business operations.

Publications

Bacterial Genome Reduction as a Result of Short Read Sequence Assembly bioRxiv	2016-12-03
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Quality Control and Curation of Public Genomic Databases

NAU's Research And Design Symposium

2017-04-28

Skills

Languages

Python, BASH, R, Java, LISP

Tools

Git, SLURM, UNIX, Pandas, Scikit-learn,
Jupyter, Pytest, Flask

Software and Research

High Performance Computing, Reproducibility,
Automated Testing, Continuous Integration and
Delivery

Business

Email Marketing, Automation, Quality
Assurance

Education

Thomas Edison State University

Computer Science

In Progress

Data structures, algorithms, operating systems, data science, and machine learning.

Northern Arizona University

Music and Biology

74 Credits

Biology, bioinformatics, genetics, music theory, composition, and performance.

Languages

English

Native speaker

Dutch

Intermediate

Community Service

Grand Canyon Guitar Society

Volunteer

Organizing for non-profit that hosts concerts for world renowned classical guitarists.

The Carpentries

Volunteer Data Science and Coding Instructor

Intensive workshops to teach foundational coding and data science skills to researchers.

AFS Intercultural Programs

Volunteer

Technical operations and support for foreign exchange students and families.

The Flagstaff Foundry

Volunteer

Front of house management for a monthly variety show and performance art non-profit.