Owen Dechow

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EXPERIENCE

Herd Genetics — *Lead Developer & Project Manager*
December 2022–PRESENT

- Worked to build herdgenetics.com, a full stack simulation of animal populations focusing on genotypes, phenotypes, predicted transmitting abilities, genetic covariance, genetic recessives, & inbreeding depressions used by Penn State University & Cornell University.
- Worked directly with clients to determine and fulfill demands and goals.
- Managed product deployments over AWS Lambda, AWS EC2, & AWS Elastic Beanstalk.
- Managed postgres databases on AWS RDS.

EDUCATION

Carnegie Mellon University — *CMU CS Academy*
August 2022–May 2022 & August 2025–PRESENT

- Python graphical application programming.
- Studies both functional & object oriented programming paradigms.

PROJECTS

Videre Nvim — *github.com/Owen-Dechow/videre.nvim*

- Built free and open source Neovim plugin allowing users to explore JSON, YAML, and TOML files as nested unit/node-based graphical representations.
- Over 135 starts on GitHub.

PyPi inbreeding-calculator — *pypi.org/project/inbreeding-calculator*

- Build Python PyPi inbreeding-calculator package for inbreeding coefficient and pedigree analysis.
- Implemented Wright's Path Algorithm.

E-Commerce Website — *beaAg.com*

- Built an e-commerce website as a volunteer for Bald Eagle Area High School.
- Built an inventory & business management system.
- Created a marketing data collection system without third-party cookies.

Custom Language — *github.com/Owen-Dechow/TermsLang*

- Built a custom statically-typed interpreted programming language based on Rust.
- Created lexer, parser, type analyzer, & interpreter.

Farmle — *owendechow.pythonanywhere.com/farmle*

- Built a fun daily farm related word game based on NYT's Wordle.

SKILLS

Django

- Apps
- ORM
- Forms
- Templates
- JQuery

AWS

- Lambda
- EC2
- S3
- RDS
- Route 53
- Elastic Beanstalk

Version Control

- Git
- Github

Operating Systems

- Windows
- Linux
- macOs x86

Editors

- Vim/Neovim
- Visual Studio

Mobile Development

- Flutter
- Android Studio

LANGUAGES

Spoken Languages

- English

Programming Languages

- Python
- HTML
- CSS
- JavaScript
- Rust
- Lua
- C#
- Kotlin
- C
- Dart
- SQL