

WHO IS 'scuti'?

Software developer, free software contributor, and blogger looking for an entry-level position.

Website and Portfolio: <https://scuti.neocities.org/>

PROJECTS

C,Python **lib3ddevil1** (*Library and demos*)
codeberg.org/scuti/lib3ddevil1

- Rips meshes and textures in unknown formats from a video game (closed source).
- Uses pointer arithmetic and type casting to initialize structs from array of bytes.
- Implemented foreign function interface to Python using ctypes.
- *I took apart a video game with a dis-assembler and memory scanner.*

C++11 **reflex2q3** (*Video game map converter*)
codeberg.org/scuti/reflex2q3
scuti.neocities.org/pages/reflex2q3...

- Converts vertices and faces into planar representations
- Used Eigen3 (linear alg. library) for calculations such as vector magnitude and bi/tangent.
- Fixed bug from someone else's code that caused output to look like a hairball.

C **hanvon-linux** (*Device driver*)
codeberg.org/scuti/hanvon-linux
scuti.neocities.org/pages/hanvon-linux

- Very old, unsupported pen tablets (art) can be used for drawing again.
- Reads absolute position (x,y), angle, pressure, tilt from a packet of 10 bytes.

C,Python, sqlite3 **xdfcgi** (*CGI / page generator*)
codeberg.org/scuti/xdfcgi

- Provided players a web interface to check map leaderboards and their scores.
- Created script to import leaderboards from game server into an sqlite3 database
- Used descriptive statistics to represent map difficulty (variance) and competition between players (median-mean difference)

INFO

E-mail: scuti@tutamail.com
git: <https://codeberg.org/scuti>
Real Name: □□□□□□□□□□
Languages: English, French
Skills: C, C++, Python, Lua, Ada, SQL, HTML, CSS, data visualization, basic machine learning

FREE SOFTWARE CONTRIBUTIONS

2024 Dec **Programmer**
Wildfire Games
C++, JavaScript, Python
Contributed to *pyrogenesis* the custom game engine of *0 A.D.*, a free and open source real-time strategy game (RTS). Collaborated with the developer community to improve functionality and stability.

W-2 EMPLOYMENT HISTORY

2021 Aug **Lab Assistant (Current)**
□□□□□□□□□□

- Conducted assays for controlled substances such as fentanyl for the confirmations phase of drug testing.
- Worked diligently to ensure correct and punctual results in an error intolerant environment.

SELF-STUDY

Data Science Nanodegree (In-progress)
Udacity

Intro to Machine Learning (UD 120)
Udacity
<https://scuti.neocities.org/pages/ud120-online-course...>
Completed an online course about machine learning algorithms for classification and regressions. Used sklearn and nltk to train and evaluate models.