



Advanced PYTHON Programming

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About Your Instructor

- Christopher Cantrell
- MSEE University of Alabama
- 35 years programming in Java, Python, JavaScript, C, and C++
- 35 years teaching (engineering and programming)
- Certified Associate in Python Programming (OpenEDG)
- Certified Java Developer



Syllabus

1. OO Programming

- Tools Refresher
- Python 2.x vs 3.x
- Review Example
- Object Oriented Programming
- OO Patterns

Ex 1. Cork Board

2. Databases

- Overview
- SQL Basics
- Python DBAPI
- Transactions
- SQL Injection

Ex 2. Cats and Dogs

3. Network Programming

- Overview
- Sockets
- UDP Client/Server
- TCP Client/Server

Ex 3. Network HiLo

4. GUIs

- Overview
- Tkinter
- Widgets
- Layout

Ex 4. Cork Board UI

5. Web Programming

- Overview
- Tornado
- Cookies
- HiLo Example

Ex 5. Cork Board Web

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