INTRO TO BACKEND DEVELOPMENT

DAY 16

05/05/2021
Instructor - Casey Wilson
TA - Kevin Dublin

Meet the Instructor

Name
- Casey Wilson

Current Job
- Database Architect @PressedJuicery

Qualifications
- BS in Computer Science

Hobbies
- Fitness, gardening, movies video games, and wine

Meet the TA

Name
- Kevin Dublin

Current Job
- Full-Stack Developer at Venture Alchemists

Qualifications
- Django Enthusiast

Hobbies
- Poetry, Prose, Scripts, and Code
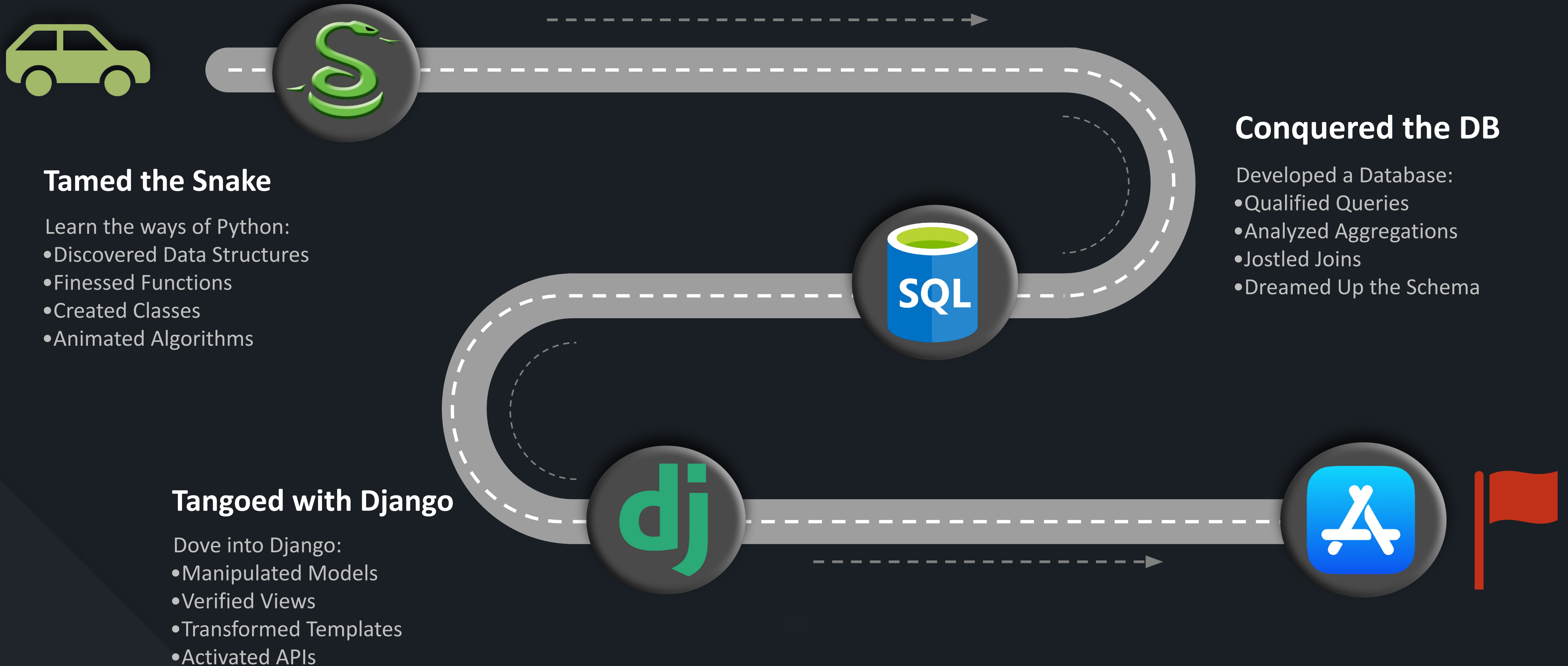
Meet Your Backend Team

Bryce

Steven

Connie

Jay

Key

Elias

Caleb

Gabriel

Roadmap - Intro to Backend Timeline

Tamed the Snake

Learn the ways of Python:
- Discovered Data Structures
- Finessed Functions
- Created Classes
- Animated Algorithms

Conquered the DB

Developed a Database:
- Qualified Queries
- Analyzed Aggregations
- Jostled Joins
- Dreamed Up the Schema

Tangoed with Django

Dove into Django:
- Manipulated Models
- Verified Views
- Transformed Templates
- Activated APIs

The Mission

Minimum Requirements:
• Pick a topic
• Create a Database Design
• Construct the Database
• Choose a Path
• Program logic for CRUD (Create, Read, Update, Delete)
• Engineer the Final Product

The Path

The Path - Admin

Admin Path:
- Utilize and Extend Django Admin
- Implement CRUD using built in methods
- Expand on base layout with Class Properties
- Create custom functions
- Master basic authentication
- Use internal routing for easy scaffolding

The Path - MVT (Monolithic)

Model View Template Path:
- Utilize Django's full architecture
- Implement CRUD using custom methods and inherited properties
- Create performant query sets to interact with database
- Design a common theme and unique look
- Master the Django Way
- Customize routing using HTML Web protocols (GET, POST, PUT, etc)

The Path - API

API Path:
- Utilize a mix of Django and a Javascript framework (Vue, React, Angular)
- Given the choice to couple or decouple
- Implement CRUD using API calls (preferably with Django Rest Framework)
- Create performant view sets to interact with database via the API
- Design a responsive and engaging frontend using the JS Framework
- Master the Django API creation and deployment
- Customize routing using a JS router (SPA)

Presentation Time

Presentation - Bryce

Student
  • Bryce Jackson

App
  • Library Checkout System

Path
  • Admin + API

Presentation - Steven

Student
- Steven Duran

App
- Board Game Tracker

Path
- Admin + API

Presentation - Connie

Student
- Connie Lai

App
- Django Shop

Path
- Admin + MVT + API

Presentation - Jay

Student
- Jay Dampitan

App
- Jay's Blog

Path
- Admin + MVT + API

Presentation - Key

Student
- Key Doby

App
- Butler's Earthseed

Path
- Admin + MVT

Presentation - Elias

Student
- Elias Gutierrez

App
- Foodtruck Management

Path
- Admin + API

Presentation - Caleb

Student
 • Caleb Harris

App
 • Gym Management

Path
 • Admin + MVT

Presentation - Gabriel

Student
- Gabriel Rios

App
- Tenant Management

Path
- Admin + MVT

Thank you!