

CS 443: Database Practicum

Instructor: Iraklis Tsekourakis

Lieb 213

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About me

- Prof. Iraklis Tsekourakis
 - Grew up in Kavala, Greece
 - Started programming in BASIC/MS-DOS in my last year of elementary school (1995)
 - Moved to the U.S. 4 years ago for my graduate studies

About me

- Education
 - BS in ECE Aristotle university of Thessaloniki (2010)
 - MS in CS Stevens Institute of Technology (2014)
 - PhD in CS Stevens Institute of Technology (2016)
- Professional Experience
 - Research Associate in CERTH/ITI (Information Technologies Institute) (2011-2012)
 - Software development, Project management, Research



Teaching

- I have been an assistant in courses on
 - Data Structures
 - Algorithms
 - Image Processing
 - Introductory Programming
- I have been an instructor on
 - Image Processing
 - Machine Learning

Research

- Autonomous Software Agents
- 3-D Computer Vision
- Machine Learning



Objectives

- Design and implement relatively complex database systems
 - backend to an application
- Properly document relatively complex database systems
 - Help developers easily understand the structure of the database in order to maintain, enhance, etc., the software

Important Points

- At any point, ask me WHY?
- You can ask me anything about the course in class, during a break, in my office, by email
 - If you think a homework is taking too long or is wrong
 - If you can't understand a specific topic
 - If you think the pace is too fast/slow
 - Etc. etc.



Logistics

- Class webpage: CANVAS
 - https://www.stevens.edu/canvas
- Office hours: Mondays 4-6pm
- and Appointments by email
- CAs office hours: TBA

Resources

- No Textbook
- Slides and more
 - On Canvas

Course Overview

- CS443 is a team project course
 - Please form teams of 4 or 5 class members by next
 Monday
- The project has to do with students who have trouble putting together study plans by designing – and hopefully, implementing – an initial version of software to do so



Course Syllabus

- design, and document relational databases (DB) (2 weeks)
- 2. design and document a relational DB for the backend of the desired software (4 weeks)
- 3. develop a GUI prototype for the desired software (requirements, analysis and design) (4 weeks)
- 4. design, and hopefully implement a heuristic that will construct study plans that satisfy the users' needs (remaining time)