Assignment Projectous Halp

https://pow.goder.com

Department of Computer Science
School of Electrical Engineering, Electronics, and Computer Science
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Assignment Project Exam Help

Scripting languages

https://powcoder.com

COMP284

Aims

Learning dutdom We Chat powcoder

Assessment

How many programming languages should you learn?

Academic / Educational viewpoint:

Learn programming language concepts and

Suse programm engriges togethin perticul exercises with the language concepts and

Learn programming language concepts and

Suse programming language concepts and

S

- functional Maude, OCaml, Haskell
- logic/constraint Prolog, DLV connetted S://powcoder.com
- then all (other) programming languages can be learned easily
- 2 An employer's viewpoint:

 Learn carty hose voer ming angues that the specific employer needs
- 3 Compromise: Spend most time on 1 but leave some time for 2 to allow more than one language from a class/paradigm to be learned
- ◆ Problem: Which additional language do you cover?
 → Look what is used/demanded by employers

Programming languages: Job ads

Software Developer
(Digital Repository)

AUS Strongen University

£31,020 - £35,939 pa

To work as part of a small team based in the University Library, working closely with the University Scompuling Services (e) (rinten) or the ristitutional digital repository, recommending and developing technical solutions, tools and functionality to integrate the repository with other internal systems and to enable research outputs to be shared externally. You will be an experienced Software Developer with University of CAMP retrictions of such AS CAMP and Javascript. You will hold a degree in Computer Science or a related discipline and/or have proven industrial experience of software development. The post is full time, 35 hours per week.

Job Ref: A-576989

Programming languages: Job ads

Senior Software Development Manager IMDb Video and Recommendations (Seattle, WA)

Development Manager to lead our "What to Watch" team. You'll be charged with transforming IMDb from a reference site to a place where hundreds of millions of people find and discover what to watch across a variety of video providers, and lean say youngt then with a time the model and TV shows best suited for them, wherever and whenever they may be.

Basic qualifications:

Bachelon discipline

Bachelon discipline

Bachelon discipline

- 10+ years of experience as a software developer
- 5+ years experience managing people
- Software development experience in OOP, Java, Perl, HTML, CSS, JavaScript, Linux/UNIX, AJAX, MySQL

Programming languages: Job ads

Full-time Remote Worker AOL Tech (Engadget, TUAW, Joystiq, Massively)

ACT CET TO THE TOTAL PROPERTY OF THE PROPERTY

The ideal candidate is highly proficient in JavaScript/iQuery, comfortable with PHP / mySQL and experjenced in web design, optimization and related technologe to to sop and bow sold net inding of mile-first design is a must.

- Requirements:

 High poice of in Was of Quet powcoder
- Familiar with spriting, lazy loading, and other general performance-optimized techniques
- Mac access for compatibility with current tools
- HTML5/CSS3
- Git, SSH

Websites and Programming Languages

Website	Client-Side	Server-Side	Database
\\$\$ [†] 21	nment	Project la P	XBig Table, 43 iaDBD
		=	
Facebook	JavaScript	Hack, PHP, Python,	MariaDB, MySQL,
1 4	11	C++, Java,	HBase Cassandra
YouTube	FPS://1	DOWEDO OF.	(Eglane, MariaDB
	JavaScript	Go	
Yahoo	JavaScript	PHP	MySQL, PostgreSQL
Amazon	#y#ScTipt /	dans fra Perlocus	, Oracle Database
Wikipedia	Java Script	GWHALL DON	MySQL, MariaDB
Twitter	JavaScript	C++, Java, Scala	MySQL
Bing	JavaScript	ASP.NET	MS SQL Server

Wikipedia Contributors: Programming languages used in most popular websites. Wikipedia, The Free Encyclopedia, 20 October 2017, at 11:28. http://en.wikipedia.org/wiki/Programming_languages_used_in_most_popular_websites [accessed 23 October 2017]

Scripting languages

Script

A user-readable and user-mortifiable program that performs simple 1persons and Help

Scripting language

A programtite power power of er. com

Classical example: Shell scripts

 $^{\#!/\text{bin/sh}}Add$ WeChat powcoder

wc -l "\$file"

done

Print the number of lines and name for each file in the current directory

- Program code is present at run time and starting point of execution
- compilation by programmer/user is not needed

Assignment or Premy extention Help

- Presence of a suitable runtime environment is required for the execution of scripts
 - includes at the Street, prus Wife of the for Street of the property of the p
 - typically also includes a large collection of libraries
- Executation of crility is tyrically slower than the execution of code that has been fully pre-compiled to machine tode

```
#!/bin/sh
for file in *; do
    wc -l "$file"
done
```

Rich and easy to use interface to the underlying operating system, in order to run other programs and communicate with them

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- Easy integration within larger systems

 - often used to glue other systems together
 can learn blad into thouse clinder.com

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```
for file in *; do
    wc -1 "$file"
```

done

 Variables, functions, and methods typically do not require type declarations

Some Built-in data structures

- (more than in C, fewer than in Java)
- Ability to generate, load and interpret source code at run time through an early function

```
JavaScript Var x Add WeChat powcoder

var y = 6;

var str = "if (x > 0) { z = y / x } else { z = -1 }";

console.log('z is ', eval(str)); // Output: z is 3

x = 0;

console.log('z is ', eval(str)); // Output: z is -1
```

• The evolution of a scripting language typically starts
with a limited set of language constructs for a specific purpose

Sologian Hattatas et life to the construct of the second type of tracking visits to a web page

- The language then accumulates more and more language constructs as it is used to Swider power on the constructs.
- These additional language constructs may or may not fit well together with the original core and/or may duplicate existing language constructs
- During Aiscroption of the language by the
- → Language design of scripting languages is often sub-optimal

COMP284 Aims

Aims

Assignment Project Exam Help To provide students with an understanding of the nature and role of scripting languages

- 2 To in their applications power of the Colors and their applications
- To enable students of write stimple scripts using these languages for a variety of applications

Learning Outcomes

At the end of the module students should be able to

Assiperantoental Parsies takes paraman Help with Sther programming languages

- odocument and comment applications winten using a scripting language nttps://powcoder.com
- 3 rapidly develop simple applications, both computer and web-based, using an appropriate scripting language

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Delivery of the module (1)

- 1 Lectures
 - Structure:

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1 or 2 lectures per week spread over 9 weeks

See your personal timetable and e-mail announcements for details https://powcoder.com

- Lecture notes and screencasts are available at cgi.csc.liv.ac.uk.uk/~ullrich/COMP284/notes
- Revisatddur Wefe Chaton powcoder
- Additional self study using the recommended textbooks and the on-line material is essential

Delivery of the module (1)

- 2 Practicals
 - Structure:

Assignation of the property of

- → get answers to questions about the lecture material
- Up to 3 additional practicals for questions about the assignments
- . schttps://powcoder.com
 - 1 practical per week for about 10 weeks

Practicals start in week 2

- Practical assume and the ty with a rux processor the tall rux by stems To recap, use the worksheets available at
 - cgi.csc.liv.ac.uk.uk/~ullrich/COMP284/notes
- Practicals assume familiarity with the related lecture material

How to learn a new programming language

 Once you know how to program in one programming language, additional programming languages are best learned by a process of

A ssignment Project Exam Help Typically, the questions that guide you are

- What kind of ... are there?
 Example: What kind of control structures are there?
- What Is the syntax for conditional statements?
- What happens if ...?

 Example: What happens if Cis livided by 0?

 How to That happens if Cis livided by 0?
- Example: How do I catch an exception?
- Talk to other people who are currently trying to learn the same language or have already learned it
 - → Ask what has surprised them most

How to learn a new programming language

 Once you know how to program in one programming language, additional programming languages are best learned by a process of Assignment Project Exam Help

- The best kind of learning is learning by doing
 - The questions posed on the previous slide are often best explored by experimenting with small sample programs ('toy' programs)
- Work on substantive programs
 - You need to convince employers that you have worked on programs more substantive than 'toy' programs
 - The aschoents we Green abstance we conder but in reality are too small
- Employers value experience, in particular, the experience that you get from overcoming challenges
 - → Assignments that are not challenging are of limited value

Delivery of the module (3)

3 Office hours

Assuage Interpretation of the Exam Help (U. Hustadt@liverpool.ac.uk)

- Announcements will be send by e-mail
 You hold Disck you marsty chair at Commy other day

 other day
 - Always use your university e-mail account if you want to contact me or any other member of staff

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Recommended texts

- Core reading
 - R. Nixon:

A Scherold Cohen Library: 518.561.N73 or e-book

• R. L. Schwartz, brian d foy, T. Phoenix:

Learning Perl. 7th edition. O'Re N 21 DS://powcode Perl. 7th edition. Harold Cohen Library: 518.579.86.S39 or e-book

- Further reading
 - M. David: HTM 5 designing refull terret applications POWCOCET Focal Press, 2010.
 - Harold Cohen Library: 518.532.D24 or e-book
 - N. C. Zakas: Professional JavaScript for Web Developers. Wiley, 2009. Harold Cohen Library: 518.59.Z21 or e-book

COMP284 Assessment

Assessment

This is a coursework-based module (no exam)

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– PHP Deadline: Monday, 9 April, 12:00

- JavaScript Deadline: Friday, 27 April, 17:00

Effort legitired: Shout 10 hours do OUET. COII

• Available at: http://cgi.csc.liv.ac.uk/~ullrich/COMP284/

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COMP284 Assessment

Attendance and Performance

			Average	Av <u>erag</u> e	Average _	
Assig	nm	ent F	Projec	Praticaty	Module	Help
I IDDI		Students	Attendance	Attendance	Wark	
	2011-12	33	76.0%	70.0%	63.1	
	2012-13	58	82.0%	69.0%	64.5	
1	2013-14	/ /107	80.0%	1 60.0%	59.1	
	2014-16S	// 1)() W. @ ()	(16)12% C	123	
_	2019-16	76	67.4%	46.8%	57.9	
	2016-17	114	43.8%	38.3%	53.0	

- From 201416 streencast of the lecture was two trees of the lecture was the street of the str
- From 2015-16, the requirement to write a report on each program was dropped
- Hypothesis 1: Lecture Attendance > 75% and Practical Attendance $> 65\% \Leftrightarrow$ Module Mark > 62
- Hypothesis 2: Screencasts Available

 ⇔ Module Mark < 59

COMP284 Assessment

Academic Integrity

Plagiarism occurs when a student misrepresents, as his/her own work, the work, written or otherwise, of any other person (including another studing including another to include the person occurs where there is unauthorised co-operation between a content of the person occurs.

- Collusion occurs where there is unauthorised co-operation between a student and another person in the preparation and production of work which is presented as the student's own
- Fabrication of data occurs when a student enhances, exaggerates, or fabricates data in order to conceal a lack of legitimate data

If you are found to have plagiarised work, colluded with others, or fabricated and then of respectively fail to the collection of the coll

Serious 'offenders' may be excluded from the University

Do not try to take a 'shortcut' You must do the work yourself! COMP284 Assessmen

Academic Integrity: Lab rules

 Do not ask another student to see any part of their code for a COMP284 assignment

Assignment of the Part of Live Exam Help Do not show or make available any part of your code relating for a

- Do not show or make available any part of your code relating COMP284 assignment to any other student
 - → contravention of this leads to collusion
- Do not share (finks to) pri-line material that might help with a COMP284 assignment
 - → contravention of this leads to collusion
- · Lock you along the length of the desired the length of t
- Where you use any material/code found on-line for a COMP284 assignment, you must add comments to your code indicating its origin by a proper academic reference
 - → contravention of this is plagiarism
 - → acknowledged code re-use may still result in a lower mark