

郝晶晶.Amy

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EDUCATION

Harbin Institute of Technology (2007.9-2011.7)

Bachelor degree in Software Engineering

Grade average: 90.05/100

Tsinghua University (2011.9-2014.9)

Master degree in Control Science and Engineering

Topic: RNA Sequencing

Grade average: 82.9/100

Oracle Cooperation (2014.7-2017.4)

Technical training on Operating System named 'Solaris 11 Internals'

Graduate certificate of Oracle NCG training program

Certificates of Business English Specialization(online,Coursera)

Professionalism(online,Coursera)

Employee of Institut National de Recherche en Informatique et en Automatique

PhD Candidate at Université Paris-Sud, Orsay, France (2017.9-Present)

How to Write and Publish a Scientific Paper(Project-Centered Course)

Applying Partial Differential Equations in person from Research Scientist

HONORS

- American Interdisciplinary Contest in Modeling (Honorable Mention)
- Several National Scholarship and People's Scholarship(China)
- IBM China Scholarship for Excellent Students

WORK EXPERIENCE

Neusoft Company, Dalian, China (2009)

Technical Lead for Embedded System Project

Participated in an embedded project called "Intelligent Electrical Appliances Control System (IEACS)". It simulates automatic control of the electrical appliances, including lights and air conditioner, in a house. The IEACS has four modules: Hardware Drivers Module, Logical Module based on uC/OS-II, Communication Protocol Module and PC Application Module.

- Finished development of Communication Protocol Module.
- Designed own serial port communication protocol.
- Ensured document quality.

Tsinghua University (2011.9-2014.9)

- *Teaching Assistant* of "Statistical Methods with Applications"
- Computing Lab Administrator (~50 users, RedHat)

Oracle Cooperation, Beijing, China (2014.7-2017)

Software Developer for Network Interface Controller Module

As one of system engineers in Oracle Asia Research & Development (Beijing) Center, worked on Solaris 12 of x86 and SPARC platform and maintained functioning of Network Interface Controller as well as coding for new features include "auto-negotiation" and "firmware consultation".

- Fixed 28 bugs and contributed code into Solaris.
- Invented ways for validation test to complete development process.

RESEARCH & PROJECTS

Author of science report “An Experimental Evaluation of the Performance of RNA-Seq Mapping Tools” (2013)

Project Experiences

A Simplified C Language Compiler Front-End

I simplified the C89 syntax as the first step. Then I coded a compiler of this C89 language with the help of VC++6.0. It is a fantastic experience to practice all the principles I learned in “Principles of Compiling” course, such as button-up parsing and top-down parsing. My “C Compiler” takes C source file as input and output corresponding quaternary sequence. And it can also inform you of all the lexical errors and most syntax/semantic errors in the source file.

Project Design in Software Engineering

“Shopping Easier”, which has two major parts: the internet browser ends and the cell-phone ends, is a platform for people to compare the prices of the same products in a certain area. In this project, we used Google map web-services and the Android Development Tools. In this project, I took part in the designing phase and maintained the documents.

Project Design in Database

This is a students’ course project, called “Library Management System”. The system provides the services for readers to book\borrow\give back\continue the library books and also recommends the most popular books. We use C#.Net language and Microsoft SQL server 2005. In this project, I took part in the designing phase and finished part of the coding work.

Project Design in Data Structure

This is a students’ course project. It’s a software to help barber shoppers to allocate customers to free seats and barbers. We practiced our coding skill of queue data structure. In this project, I did most of designing and coding work.

SKILLS

C/C++

- Developed a simplified C language compiler with almost 9000 lines of C++ code.
- Linux/Solaris System&Shell Script
- Hands-on experience working with clusters and debugging skills with MDB/DTrace.

Algorithms

- Researched on evaluating seven popular RNA mapping tools (string algorithms)
- Designed and analyzed bioinformatics algorithms at Tsinghua and developed a graph algorithms package in R
- Classwork
 - *Algorithm Design and Analysis at HIT*
 - *Combinatorics*

Machine Learning (AI&Big data)

- Worked as a volunteer of THUDatapi
- Classwork
 - *Pattern Recognition*

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- *Statistical Methods with Applications*
 - *Introduction to Statistical Theory*
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