单泓天

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教育经历

| 北京邮电大学 | 2018.9-2022.6 | 电信工程及管理 | 本科 |
| 北京邮电大学 | 2022.9-至今 | 网络空间安全 | 第二学士学位 |

主修课程：
- （计算机类）计算机网络、数据结构与算法、计算机组成原理、操作系统、软件工程、网络安全等；
- （多媒体类）交互式媒体、图像与视频处理等；
- （管理类）企业管理、市场营销学、产品开发与营销。

项目经验

- **2019.05 – 基于 C 语言的电影院售票系统**　　https://github.com/CharlesShan-hub/Movie
  进行统筹系统架构设计；独立优化电影排片算法；撰写系统文档。

- **2020.09 – 基于 Arduino 的生日礼物电子琴**　　https://github.com/CharlesShan-hub/ArduinoLab
  主导核心功能的实现；独创全年级唯一的双音实现方案。

- **2021.04 – 基于 Java 的健身课程及预约软件**　　https://github.com/CharlesShan-hub/Software_group13
  作为核心成员，采用敏捷开发，进行应用界面设计和教练模块编写。

- **2019 - 2021　基于Python的提醒事项与信息记录分析系统**　　https://github.com/CharlesShan-hub/IIA
  完全于课余时间独立完成；了解了 Python 以及常见的第三方库的用法。

- **2021.05 – 北京人文地理网站**　　https://github.com/CharlesShan1/2020EBU6305G05
  担任交互式媒体课程组长；主导完成网站设计与编码内容；了解了 H5C3 与 JS 的用法。

- **2021.07 – 博客与博客辅助工具**　　https://charlesshan.top , https://github.com/CharlesShan-hub/PKM
  基于 Github Page 搭建博客；培养了记录学习内容的习惯并坚持两年；打造了一系列辅助博客生成的脚本。

- **2022.03 – 基于区块链的物联网系统设计(毕业设计)**　　https://github.com/CharlesShan-hub/BoTDapp
  进行通过以太坊提高物联网安全性的实践；了解了 Solidity 与 Node.js；掌握了 Esp8266 芯片的使用方法。

获奖证书

- CET-4、CET-6；
- 2018-2019 年度校级三等奖学金；
- 2020 年 ACM 国际大学生程序设计竞赛 H 奖（获奖项目的前 15%）；
- （组织能力）校文艺部 18-19 年文案组组长，策划 18 年"音为邮你歌手大赛"，"艺馨杯"主持词，19 年"主持人大赛"。

自我评价

- 丰富的编程经历，熟练使用 C，Java，Python，JavaScript；
- 对待工作重视细节，重视文档编写，编写代码注意容错和可读性；
- 不给自己设限，有较强的主动的学习能力，能快速接受和掌握新技术；
- 擅长团队合作，在团队中有强烈的责任心和使命感，具有良好的沟通表达能力。

Hongtian Shan

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EDUCATION BACKGROUND

School of Cyberspace Security, BUPT   09/2022 - Today
Cyberspace Security   Bachelor of Engineering

International School of BUPT   09/2018 - 06/2022
Telecommunication Engineering and Management   Bachelor of Engineering

Major Course: Computer Science correlation, Multimedia correlation, Communication Engineering correlation, Management correlation.

PROJECT EXPERIENCE

2019.05 - Cinema Ticketing System Based on C   *https://github.com/CharlesShan-hub/Movie*
  - Led a team of five. Optimized film scheduling algorithm independently.
  - Designed the system architecture. Responsible for system debugging, verification and documentation.

2020.09 - Electronic Organ Design Project   *https://github.com/CharlesShan-hub/ArduinoLab*
  - Being the only one in the grade to have designed the harmony realization method.
  - Implemented the dominant core functions includes the flame sensor module, various playing modes etc.

2021.04 - Java Based Online fitness Application   *https://github.com/CharlesShan-hub/Software_group13*
  - As a core member, carried out the UI design and developed coaching module.
  - Applied Agile Development methodology with Java.

2019 - 2021 - Intelligent Information Assistant Based on Python   *https://github.com/CharlesShan-hub/IIA*
  - Self-learnt Python and used it to have designed a time management application for reminders and notes.

2021.05 - Beijing Human Geography Website   *https://github.com/CharlesShan1/2020EBU6305G05*
  - Lead the project team to complete the website within 5 weeks, personally designed the website content and program architecture with throughly understanding of html, css and JS.

2021.07 - Blogs and Quick Blogging Tool   *https://github.com/CharlesShan-hub/PKM*
  - Created a series of scripts to help blog generation, deployment and display.   *https://charlesshan.top*

2022.03 - IoT System Based on Blockchain (Graduation Project)   *https://github.com/CharlesShan-hub/BoTDapp*
  - Used Esp8266-NodeMCU and GPS module to simulate IoT(Internet of Things) devices.
  - Used Node.js to build a server to host the control panel website and communicate with the IoT devices.
  - Used Solidity to write smart contracts and deployed them on the Ethereum private chain as a database to improve system security.

AWARD CERTIFICATION

- CET - 4, CET - 6
- The Middle Third Class Scholarship in 2018-2019 academic year (Top 30%)
- H prize in ACM contest in 2020 (Top 15% of winners)

SELF EVALUATION

- Rich programming experience. Proficient in C, Java, Python, JavaScript.
- Open mind, strong self-learning ability, quick understanding and mastering new technologies.
- Pay attention to details. Attaches importance to the document writing, fault tolerance and code readability.
- Strong sense of responsibility and mission, team spirit, good organization and communication skills.