

# Xue Lin

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## Education

**The University of Hong Kong** | MSc in Financial Computing 2024.9 – 2025.11  
**University of Science and Technology of China (USTC)** | BE in Information Security 2020.9 – 2024.6

- **GPA:** 3.39/4.30 (84.24/100). **Core:** Data Structures, Algorithm Analysis, Computer Organization, Computer Networks, Compilation Principles, OS, Cryptography.

## Work Experience

**New Channel International Education** | Mathematics & CS Lecturer, Science Dept Supervisor  
2025.6 – Present

- Deliver A-Level / DSE / IB Mathematics and Computer Science courses; serve as Science Department Supervisor, overseeing curriculum R&D and faculty coordination across Math and CS; manage student services including academic progress tracking and client feedback for 50+ students.

## Projects

**PiBox Dashboard** | Edge Device Monitor | Python, FastAPI, HTML/CSS, Raspbian 2025

- Designed a real-time monitoring dashboard for Raspberry Pi (CPU, chip temp, memory, disk I/O) with FastAPI backend and RESTful stats API; responsive frontend with real-time data refresh; deployed on Pi behind Nginx reverse proxy.

**Jin10 Monitor** | Financial News Intelligence System | Python, DeepSeek AI, SQLite, Bark 2025

- Built a real-time financial news monitoring system polling Jin10 flash updates every 90s; implemented two-tier detection: local keyword matching → DeepSeek AI semantic verification; terminal dashboard with live status display and Bark push notifications for iPhone alerts.

**Barchart UOA Scanner** | Options Data Pipeline | Python, Playwright, yfinance 2025

- Developed automated pipeline scraping 3,000+ unusual options records via Playwright; built multi-parameter filter engine with IBKR real-time verification (price drift, IV spike); shipped CLI + Tkinter GUI dual interfaces.

## Research Experience

**RoboGame 2022 Robotics Competition (Second Prize)** | Prof. Shiwu Zhang, USTC 2022.11 – 2023.5

- Developed robot chassis motion control in C on KEIL IDE; integrated motion, patrol, vision, and task modules into a unified real-time embedded system; won Second Prize in the university-wide competition.

**Image Encryption via Flexible Attribute-Based Access Control** | Prof. Weihai Li 2022.5 – 2023.5

- Designed an attribute-based image encryption algorithm for tiered user access control; led core algorithm design and team coordination for modular implementation with extensible interfaces.

## Honors

- Bronze Award, Outstanding Students Scholarship, USTC Oct 2023
- Third Prize, 14th National Math Competition (Non-Mathematics) Jan 2023
- Endeavour Scholarship & Talent Program Scholarship, USTC 2020 – 2022

## Skills

- **Programming:** C/C++, Python, Java, Dart, MATLAB, Shell
- **Tools & Platforms:** KEIL (ARM embedded), FastAPI, Flutter, Docker, Git, Playwright, Supabase, Linux, Embedded Systems, Real-Time Systems
- **Languages:** Mandarin (Native), English (Fluent, IELTS 7.0)

# 薛琳

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## 教育背景

- 香港大学 | 计算机科学金融计算硕士 2024.9 – 2025.11
- 中国科学技术大学 | 网络空间安全学院信息安全学士 2020.9 – 2024.6
- GPA: 3.39/4.30 (84.24/100)。核心课程: 数据结构、算法分析、计算机组成原理、计算机网络、编译原理、操作系统、密码学等。

## 工作经历

- 新航道国际教育 | 数学/计算机讲师 & 理科组主管 2025.6 – 至今
- 负责 A-Level / DSE / IB 数学与计算机课程教学; 担任理科组主管, 统筹数学、计算机学科的教研任务与教学质量把控; 管理学员服务, 包括学习进度追踪及客户反馈处理, 覆盖 50+ 名在读学员。

## 项目经历

- PiBox 星云观测站 | 边缘设备监控 | Python, FastAPI, HTML/CSS, Raspbian 2025
- 为树莓派设计实时系统监控仪表盘, 追踪 CPU、芯片温度、内存及磁盘 I/O; FastAPI 后端 + RESTful 数据接口, 前端实时刷新; Nginx 反向代理部署于树莓派。
- 金十监听系统 | 财经快讯智能监控 | Python, DeepSeek AI, SQLite, Bark 2025
- 构建实时财经快讯监控系统, 每 90 秒轮询金十数据; 实现两级检测: 本地关键词粗筛 → DeepSeek AI 语义精判; 终端仪表盘实时状态显示 + Bark 推送 iPhone 即时通知。
- Barchart UOA Scanner | 期权异常数据扫描 | Python, Playwright, yfinance 2025
- 基于 Playwright 开发自动抓取 3000+ 条非正常期权数据; 构建多参数过滤引擎 + IBKR 实时验证 (价格漂移、IV 异动); 提供 CLI 一键式工作流与 Tkinter GUI 双界面。

## 研究经历

- 中国科学技术大学 RoboGame 2022 机器人竞赛 (二等奖) | 指导教师: 张世武 2022.11 – 2023.5
- 基于 KEIL IDE 使用 C 语言开发机器人底盘运动控制模块 (ARM 嵌入式), 集成运动、巡视、视觉与任务模块为统一实时系统, 获得校级竞赛二等奖。
- 基于灵活属性的图像感兴趣区域分级加密 | 指导教师: 李卫海 2022.5 – 2023.5
- 设计基于属性的图像分级加密算法, 实现不同用户灵活权限控制; 主导核心算法设计与团队模块化开发, 预留扩展接口。

## 获奖经历

- 中国科学技术大学优秀大学生铜奖 2023 年 10 月
- 第 14 届全国大学生数学竞赛 (非数学类) 省级三等奖 2023 年 1 月
- 中国科学技术大学奋进奖学金 & 信息科学技术英才班奖学金 2020 – 2022

## 技术能力

- 编程语言: C/C++, Python, Java, Dart, MATLAB, Shell
- 工具与平台: KEIL (ARM 嵌入式), FastAPI, Flutter, Docker, Git, Playwright, Supabase, Linux, 嵌入式系统, 实时系统
- 语言能力: 普通话 (母语)、英语 (流利, 雅思总分 7.0)