

# John Litborn

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*20+ programming side projects, 15 years linux experience, scored top 0.1% in Swedish SAT,  
participated in The Programming Olympiads and several other competitions*

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## Experience

- 2013–17**                      **Amanuensis, Course Assistant, Head Assistant**                      **Linköping University**
- Led lessons and lab sessions, advised on projects, and graded hand-ins and exams
  - Taught courses in Python, C++, Ada, MATLAB, C++ STL, Git, OOP, and unit testing
  - Performed light administrative and managerial duties for students and other assistants
  - Improved tooling and workflow used by assistants
- Summers of 2014–15**                      **API & Course Developer**                      **Linköping University**
- Added features and fixed bugs in the interfaces between the C game client, the injection code used to run a game client automatically, and the Python API used by students
  - Changed server–client netcode to send extra data, offloading and improving the client-side AI API
  - Overhauled assignments and improved instructions and documentation
- Mar–Oct 2017**                      **IT Consultant**                      **Ericsson**
- Updated 4G base-station unit tests written in Erlang to work in a virtualized environment
  - Supported core Linux and Git skills for other team members
  - Wrote automation scripts in Python & shell
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## Education

- 2012–14, 2020–21**                      **Computer Engineering**                      **Linköping University**
- 80 credits in programming courses with a focus on algorithm construction, optimization, low-level code, and hardware. Python, C++, C, Java, Ada, VHDL, Prolog, Assembly, GNU MathProg, Microcode.
  - 40 credits in math courses; statistics, logic, discrete math.
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## Personal Project Highlights

- [Necro Score Bot](#)** [1700 LoC]                      *2015–present*
- Pulls leaderboard updates from the Steam API for the indie roguelike rhythm game Crypt of the Necrodancer, posting notable scores to Twitter and Discord.
  - Continuously running since 2015, six github contributors.
  - 240 [Twitter](#) followers, 13.2k tweets, ~12.1k likes.
  - Tags registered players and detects cheated or bugged scores, notifying the developers
- [Seat Exchange Game](#)** [3350 LoC]                      *May–June 2019*
- Implements an adaptation of a game from a Korean game show, *The Genius*
  - Supports 40 different commands, varying player counts, bot players, simultaneous games, and permissions
- Both fully linted and typed, written in Python.
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## Merits

2011 **Programming Olympiad**, national qualifiers: tied for 31st / 164

2014 **MicroCode sorting competition** as part of a university course. Placed **1st** with an average runtime of 903.6 cycles, breaking the professors record of 948, and smashing the student record at the time. (>1100)

2015 **Nordic Collegiate Programming Contest** (part of ICPC): 9th/22 at our university, 108th/355 nationally.

2013 **Mensa entrance test**: IQ 135+ (top 1%).

2012 **Swedish SAT**: 2.0/2.0 (top 0.1%)

2016 **Swedish SAT**: 1.9/2.0 (top 0.2%), retook it for fun with a friend

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**[Complete CV](#)** including a full list of my 20+ programming projects is available on my GitHub.