

# Daniel Almasi

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## EDUCATION

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### King's College London

*Bachelor of Science in Computer Science; First Class Honours (80%+)*

- Teaching Assistant for Undergraduate Students

Sep 2018 – Jun 2021

*London, UK*

### Milestone Institute of Advanced Secondary Studies

*Hungarian Matura; Overall grade of 5 ("Excellent") on a scale of 1-5*

Sep 2017 – May 2018

*Budapest, HU*

### University of Cambridge

*Level 3 Certificate in Advanced English; Grade A*

Jul 2018

*Cambridge, UK*

## EXPERIENCE

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### King's College London Centre for Doctoral Studies

*Software Engineer*

Oct 2019 – Present

*London, UK*

- **RDFmapped:** Researcher Development Framework mapped to LinkedIn Learning. Developed, tested & deployed `rdfmapped.com` dynamic website integrating LinkedIn & GitHub APIs. Maintained >99% test coverage in CI and achieved >95% in Google Chrome Lighthouse tests. (NodeJS, Express, PostgreSQL, REST, CSS, Nginx, AWS)
- **Student Management Extension:** Lightweight Excel Add-in providing fast & user friendly interface for administering student grant records. Designed & developed funding database and client side app. (TS, NoSQL)
- **Course Management Calendar:** Developed comprehensive interdepartmental online course calendar integrating external booking system. (JS, GraphQL, HTML)
- **FAQ Response Bot:** Automated smart FAQ response application. Designed & implemented email processing algorithm achieving 37% reduction in queries requiring manual administration. (JS, GraphQL, HTML, CSS)

### King's College London Centre for Research Staff Development

*Data Analyst*

Aug 2019 – Oct 2019

*London, UK*

- Developed automated analysis tool for Careers in Research Online Survey. (VB.NET)
- Responsible for automating various internal workflows. (VBS, VB .NET)

### New York Academy of Sciences, The Junior Academy

*Junior Researcher*

Sep 2016 – Aug 2018

*New York, USA*

- Formulated and led international project *Novus aer* to develop smart grid system capable of reducing inefficient electricity consumption and thus CO<sub>2</sub> emissions by intelligent energy use. Developed monitoring algorithm for always-on appliances. (C++)
- Recipient of invitation to present finalist project in front of world-renowned scientists - including 14 Nobel Laureates - at the Challenge 2030 Summit of the Global STEM Alliance and \$8000 prize. (2017)

### Uhans Mobile Inc., EEA Department

*Java Developer Internship*

May 2016 – Sep 2016

*Budapest, HU*

- Worked on implementation and testing of regionally popular AOSP UI features in FreemeOS for U200 and U200S models, boosting sales by 16% in target region. (Java, C)
- Discovered and reported disguised credential-stealer Trojan Agent on an upcoming firmware of the newly released S1 device resulting in the termination of sales in the EEA.
- Built TWRP recovery for the S1 model and released source on XDA Developers and Github. Assisted users in malware removal and received kudos from over a dozen device owners outside the EEA. (C, Shell)

### Tailored Android Phones

*Founder*

Sep 2015 – May 2016

*Budapest, HU*

- Set up a small business aimed at making users' smartphones more efficient and tailored to their liking. (C, Shell)
- Built custom operating systems based on AOSP and provided ongoing support for 20+ satisfied customers.

## PROJECTS

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**n-digit-token** | *TypeScript, 0 dependencies, over 4k npm downloads*

Aug 2020 – Present

- Developed npm library that generates an n-digit cryptographically strong pseudo-random token
- Published experiments proving constant time complexity  $O(1)$  and complete avoidance of modulo bias
- Maintains module for over 4k npm and various GitHub users