



# DÉNES BÁN

## SOFTWARE ENGINEER



### ABOUT

Senior software engineer with 8 years of experience in various environments. (C++, Java, Full-Stack Web, Python, Automation, ...)

Proven track record of excellent verbal and written communication through publications, tech reports, conferences, and teaching; in English and Hungarian.

Focusing on static source code analysis, maintainable system architectures, software quality, and machine learning; aiming to transition into data science.

Vocal proponent of remote work, seeker of financial independence, avid reader of science fiction and fantasy, constant listener of neurofunk.



### CONTACT

+36-70/459-6622  
mr@zealot.hu  
mrzealot  
bandenes



## EXPERIENCE

### RESEARCH FELLOW

// APR 2018 - PRESENT

#### UNIVERSITY OF SZEGED

Bug prediction through deep neural networks; data science related tasks in the Python ecosystem.

### MENTOR

// AUG 2017 - PRESENT

#### FLOW ACADEMY

Compiling parts of the curriculum; teaching programming basics, object oriented concepts, UML modeling, and design patterns.

### SOFTWARE ENGINEER

// JUN 2012 - MAR 2018

#### UNIVERSITY OF SZEGED

Static source code analysis and data schema design; syntactic tree building and metric calculations; software quality related research; tech lead on a medical internal accounting solution; senior developer on an industrial ERP system; participant in the REPARA FP7 project; in charge of multiple refactoring and automation efforts.

### WEB DEVELOPER

// FEB 2010 - MAY 2012

#### INGATLANNET.HU

Developing and expanding the GUI and backend of a high traffic real estate site; maintaining the admin pages and databases; managing virtual machines, backups, and configurations.

### SYSTEM DESIGNER

// MAY 2011 - DEC 2011

#### SKYPLUSZ

Implementing a financial administrative webinterface; designing the system architecture by analyzing business requirements.



## EDUCATION @ UNIVERSITY OF SZEGED

### DOCTOR OF PHILOSOPHY (PhD)

// SEP 2014 - APR 2018

#### APPLIED COMPUTER SCIENCE

Summa Cum Laude; Thesis: Static Source Code Analysis in Pattern Recognition, Performance Optimization and Software Maintainability

### MASTER OF SCIENCE (MSc)

// SEP 2012 - JUN 2014

#### SOFTWARE INFORMATION TECHNOLOGY

Grade: 4.95 / 5; Thesis: Antipattern Recognition

### BACHELOR OF SCIENCE (BSc)

// SEP 2009 - JUN 2012

#### SOFTWARE INFORMATION TECHNOLOGY

Grade: 4.95 / 5; Talent Management Program; Thesis: Recognizing Design Patterns in Object Oriented Source Code



## HONORS

- Fellowship of the Republic x 2
- Fellowship of the City of Szeged
- Eötvös Loránd Research Grant
- Pro Ingenio Award
- Talent Scholarship
- Excellent Talk Award