

Dmytro Bogatov

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OBJECTIVE

Looking for a research internship in the area of Databases and Distributed Systems. Interested in problem-solving, research and software development.

EDUCATION

BOSTON UNIVERSITY

PHD IN COMPUTER SCIENCE

SPECIALIZATION IN DATA SCIENCE

Expected May 2023 | Boston, MA

Chair's Fellowship

BOSTON UNIVERSITY

MASTER IN COMPUTER SCIENCE

SPECIALIZATION IN CYBER

SECURITY

Awarded May 2019 | Boston, MA

GPA: 4.00 / 4.00

WPI

BS IN COMPUTER SCIENCE

MINOR IN ECONOMICS

Awarded Feb 2017 | Worcester, MA

Dean's List (All Semesters)

Graduation with High Distinction

GPA: 3.99 / 4.00

COURSEWORK

Cryptography

Advanced Algorithms

Advanced Database Systems

Advanced Operating Systems

Distributed Systems

Compiler Design

Optimization Methods

SKILLS

PROGRAMMING

Over 50,000 lines:

C# • C/C++ • \LaTeX

Over 10,000 lines:

Go • Python • TypeScript / JS • Java

Swift • HTML • SQL • Bash

Intermediate level

Scheme / ATS • CSS • PHP

Ruby • Pascal • x86 assembly

DEVOPS

Ubuntu • Docker • Kubernetes

CI / CD • Infrastructure automation

NGINX • Git • GitLab admin

RESEARCH

EVALUATION OF SECURE RANGE QUERY PROTOCOLS

| PRESENTED AT VLDB 2019, LOS ANGELES, USA

March 2018 – February 2018 | Boston, MA

- A Comparative Evaluation of Order-Revealing Encryption Schemes and Secure Range-Query Protocols
- Analyzed, implemented and evaluated 5 ORE schemes and 5 protocols
- Accepted at VLDB 2019 [ia.cr/2018/953](https://doi.org/10.1145/3183311.3183312)

DIFFERENTIALLY PRIVATE ORAM

| WORK IN PROGRESS WITH GEORGE KELLARIS

Sep 2018 – present | Boston, MA / Montreal, QC

- Developing ORAM-based database backend satisfying Differential Privacy
- Inventing and optimizing to improve the performance
- Current technical report arxiv.org/abs/1706.01552

ANONYMOUS TRANSACTIONS IN BLOCKCHAINS

| SUBMITTED TO ACM CCS 2020

Jun 2019 – present | Boston, MA / Zürich, ZH, Switzerland

- Anonymous Transactions with Revocation and Auditing in Fabric
- Developed production-grade Go cryptographic library
- Submitted to ACM CCS 2020 [ia.cr/2019/1097](https://doi.org/10.1145/3183311.3183312)

INDUSTRY EXPERIENCE

AMAZON WEB SERVICES, INC.

| APPLIED SCIENTIST INTERN @ CRYPTO ALGORITHMS TEAM

Oct 2019 – Dec 2019 | Seattle, WA

- Computations over encrypted data, SSE schemes

IBM RESEARCH – ZÜRICH

| CLOUD & COMPUTING INFRASTRUCTURE INTERN

Jul 2019 – Sep 2019 | Zürich, ZH, Switzerland

- Delegatable anonymous credentials in permissioned blockchains
- Paper submitted to ACM CCS 2020 [ia.cr/2019/1097](https://doi.org/10.1145/3183311.3183312)

CONFERENCES

- Presented at VLDB 2019 in Los Angeles, CA
- Presented at Encrypted Search Workshop at Brown
- Attended EUROCRYPT 2019 in Darmstadt, Germany
- Presented at Northeastern Database Day 2019 at MIT
- Attended 2nd Workshop on Encryption for Secure Search and other Algorithms
- Presented at 23rd Annual Issues in Political Economy Conference
- Presented at 2016 IEEE MIT Undergraduate Research Technology Conference

AWARDS

Fall 2017	BU	Chair's Fellowship
May 2016	WPI	Certificate "Outstanding Junior"
All Semesters	WPI	Dean's List
Spring 2014	WPI	Charles O. Thompson Scholar