

# Thomas Benjamin

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## Thomas Scott Benjamin

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<http://cryptocracy.net>

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## Skills

- Research and development
    - Ethical hacking, Security and Cryptography, Biometrics
    - Broad programming skills in C++, Java, Python, PHP, and others
  - People and project management
    - Responsible for 4 teams totalling 27 people in most recent job
  - System administration
    - Linux, Windows, Neo4j, MySQL
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## Experience

### TPiPR / CTO

March 2013 - August 2016, San Juan, PR - (Work performed remotely 80% of the time)

Responsible for research and development. Oversaw growth from 2 developers to 27. Managed 4 teams working with multiple programming languages on multiple platforms. Designed and implemented back-end for deployed product: <https://www.rallypages.com/>. Led research on voice biometry.

### Aquavit Pharmaceuticals / VP Technology

March 2012 - March 2013, NYC, NY - Seoul, South Korea - (50% remote)

Managed development process of multiple products including healthcare software and medical devices with engineering teams in the US and South Korea

### Cryptocracy LLC / Member

2011 - 2013, Home Office in Cold Spring, NY

Information Security Research and Consulting

### The Tor Project / Research Scientist

2010 - 2011, Home Office in Cold Spring, NY

Research into censorship circumvention and free speech technology

### ETH Zürich / Research Assistant

2008 - 2010, Zürich, Switzerland

Doctoral research on security and privacy of implantable medical devices and RFID leading to 3 publications in venues such as ACM CCS and Usenix Security

### IBM Research Zürich / Researcher

2007 - 2009, Rüschlikon, Switzerland

Research on security and privacy technology such as anonymous credentials leading to 3 peer reviewed publications and 2 patent filings (1 granted)

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## University of Massachusetts Amherst / Research Assistant

2004 - 2007, Amherst, MA

Research on security and privacy leading to 5 peer reviewed publications, including 2 ethical disclosures reported through the New York Times

## Riverdale Country School / Teacher, Administrative staff member

2000 - 2004, Bronx, NY

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## Education

### ETH Zürich / Doctoral Research (ABD)

2008 - 2010, Zürich, Switzerland

Thesis topic: Security and Privacy of Embedded Devices

### University of Massachusetts Amherst / M. S. in Computer Science

2004 - 2007, Amherst, MA

Thesis topic: Cloning Resistant Anonymous Credentials

### Yale University / B.S. in Computer Science

1996 - 2000, New Haven, CT

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## Awards and Patents

### IEEE Security and Privacy Best Paper Award

“Pacemakers and Implantable Cardiac Defibrillators: Software Radio Attacks and Zero-Power Defenses” *Security and Privacy*, 2008. SP 2008. *IEEE Symposium on*

### Cryptographic Encoding and Decoding of Secret Data

Pub Date 2010, US Patent No.: 2010/0142704

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## Selected Media Coverage

### “A Heart Device Is Found Vulnerable to Hacker Attacks”

*The New York Times*, March 12 2008

### “Heart-Device Hacking Risks Seen”

*The Wall Street Journal*, March 12 2008

### “Researchers See Privacy Pitfalls in No-Swipe Credit Cards”

*The New York Times*, October 23, 2006

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## Memberships

Mensa, ACM, IEEE