

# Decentralized Application for Digital Certification

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## Major Research Domain

### BLOCKCHAIN

- Decentralized and immutable ledger; no central repository or single administrator.
- Holds and reports the numbers of every transaction.
- Available to everybody, so all transactions are public.

### Issues in Research domain

- Mass market adoption/standards.
- Integration into pre-existing systems vs start from scratch.
- Computing power.
- Financial intermediation.
- Public sector
  - Regulators, Government agencies.

## Problem Statement

### • Designing a Platform for Digital Certificates.

Certificates are signals of achievement or membership and some are more important than others. University degrees can help you get the job you want, or prevent you from getting it if you don't have the right certificate. Our system for managing certificates is slow, complicated, and unreliable.

## Objective

- ✓ Development of decentralized application to issue and verify blockchain-based official records like civic records, academic credentials, professional licenses.

## References:

- Blockchain  
<https://www.blockchain.com/>
- Blockcerts - The Open Initiative for Blockchain Certificates  
<https://www.blockcerts.org/>
- Digital Certificates Project  
<http://certificates.media.mit.edu/>