

# Matthew Baeckelandt

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## EDUCATION

### Georgia Institute of Technology

M.S., Computer Science  
*Specialization, Computing Systems*

August 2019 | May 2021

GPA: 3.6/4.0

### University of Illinois at Urbana-Champaign

B.S., Engineering Mechanics  
*Minor, Business*  
*Secondary Field, Computer Science*

August 2015 | May 2019

GPA: 3.5/4.0

## EXPERIENCE

### Enova International

*Software Engineering Intern*

June 2020 | August 2020

*Chicago, IL*

- Developed backend Campaign Management System in Golang for Enova's Simplic Product
- Wrote dockerized Go microservice to read events from Kafka queue, serve REST API endpoints, and manage data in PostgreSQL database
- Participated in Agile software development process, 2 week sprints, and daily Standup meetings

### Linx Global Mfg.

*Software Engineering Intern*

June 2019 | August 2019

*Chicago, IL*

- Developed web dashboard using Python, Django and Dash, integrating mySQL database used to display and interpret real-time PIR sensor data from LoRa devices across locations in the United States and China

### Paladin Capital Group

*Intern*

June 2018 | April 2019

*Chicago, IL*

- Performed comparable companies and precedent transaction analyses in Excel for pre-IPO portfolio company and prospective investments for VC/PE firm focused on cybersecurity

### Simex Filterpressen

*Mechanical Engineering Intern*

June 2017 | August 2017

*Calw, Germany*

- Designed and modeled filter press assemblies in Autodesk Inventor
- Served as assistant for Simex in cooperative research and development with Karlsruhe Institute of Technology (KIT)

## PROJECTS

### AFS-like Distributed File System

*C++, gRPC*

- Created multithreaded distributed file system to send files of any format handled by asynchronous remote procedure calls
- Implemented file caching, reader/write lock management, time-based file updates, protocol buffers

### Job Comparison Mobile App

*Java, Android SDK*

- Developed Java Application to compare job offers and current job based on weighted sums of salary, benefits, cost of living, and job opportunity

### Ray Tracing Library

*Python*

- Wrote library to render image scenes and simple shapes based on ray-traced lighting/shadow effects according to Phong Reflection Model

## SKILLS

### Programming Languages

Python | C | C++ | Go | Java | Matlab | Javascript

### Selected Coursework

Graduate Operating Systems | Computer Networks | Software Dev. Process | Machine Learning For Trading

### Technologies

Kafka | PostgreSQL | mySQL | Git | Android SDK | Django

*References available upon request.*