

Erica Dippold

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EDUCATION

Rutgers Business School – 2018 - *Bachelor of Science in Finance & Economics* **New Brunswick, NJ**
Hack Reactor – 2022 - *Advanced Software Engineering, 5-month full-time immersive (1000+ hours)* **New York, NY**
The University of Pennsylvania – 2021 - *Introduction to Programming with Python and Java (5 courses)*
Udemy – 2022 - *JavaScript Algorithms and Data Structures Masterclass*

TECHNICAL SKILLS

Programming | Python 3, JavaScript ES6+, SQL, HTML5, CSS
Front End | React, Websockets, DOM Manipulation, Bootstrap
Back End | Django 4, PostgreSQL, MongoDB, Microservices, RabbitMQ, FastAPI, Apache Kafka
System Design | Monoliths, Microservices, Domain-Driven Design, Message Passing, Event Sourcing, REST API

APPLICATION DEVELOPMENT EXPERIENCE

Concert Buddy | Site, Git | *Django, React, Docker, Microservices, REST API* **New York, NY**
Full-Stack Software Engineer **2022**

- Developed a Django / React e-commerce application with functionalities such as firebase authentication and friend messaging
- Interfaced with Setlist.fm API to provide upcoming concert data for users to find events by location to purchase or sell tickets
- Collaborated with 4 engineers to architect the design and features using Domain-Driven Design and an agile workflow

CarCar | Site, Git | *React, Django, Docker, Microservices, REST API* **New York, NY**
Full-Stack Software Engineer **2022**

- Built a full-stack Django / React application with REST API architecture, 16+ React components and authentication features
- Designed the microservice-based application utilizing 7 Docker containers to ensure data integrity and horizontal scalability
- Developed an understanding of database communication by using polling techniques to share data between microservices

Conference GO | Site, Git | *Django, React, RabbitMQ, Docker* **New York, NY**
Full-Stack Software Engineer **2022**

- Refactored a Django-based monolith application into microservices with modern architecture and React components
- Employed RabbitMQ pub/sub and middleware queuing between 3 microservices for efficient backend data communication
- Integrated 3 third-party API's utilizing anti-corruption layers (ACLs) to ensure accurate data mapping

PROFESSIONAL EXPERIENCE

CoreVest Finance **New York, NY**
Capital Markets Analyst **2021 – 2022**

- Involved with structuring and executing real estate debt capital markets and mortgage-backed security (MBS) transactions
- Utilized financial modeling and VBA coding language skills to create excel pricing models for capital markets trading
- Worked on several \$300M+ real estate CMBS securitizations, pools consisting of ~100 loans secured by 2000+ properties

Clarion Partners **New York, NY**
Treasury Analyst **2019 – 2021**

- Created from scratch an excel model to forecast revenues and cash projections for Clarion's largest performing fund
- Contributed to various projects throughout the year, optimizing cash management, daily reporting, and liquidity oversight
- Worked on \$10mm+ transactions, requiring extreme attention to detail and adhering to strict deadlines

Jefferies **New York, NY**
Treasury Analyst **2019**

- Day-to-day management of daily treasury outlook, cash positions, and liquidity, requiring extreme attention to detail
- Oversaw \$4b+ in cash management and treasury operations that overlooked all the major divisions of Jefferies
- Extremely proficient with Excel. Automated various systematic processes using macros and VBA code

PGIM Fixed Income - *Summer Fixed Income Intern* – 2017 **Newark, NJ**
Bay Crest Partners, LLC - *Summer Analyst, Sales & Trading Intern* – 2016 **New York, NY**
WBB Securities, LLC - *Equity Research Intern* – 2015 - 2016 **Clark, NJ**

LEADERSHIP EXPERIENCE & AWARDS

Alpha Kappa Psi (AKΨ), the Co-Ed Professional Business Fraternity **New Brunswick, NJ**
Treasurer (Executive Board); Public Relations Chair; Mission & Vision Committee **2015 – 2018**
Johnson & Johnson University Case Competition, 1st Place **New Brunswick, NJ**
Winner - 1st Place – Regional; Top 10 – National **2016**
Honors & Awards: Gamma Sigma Alpha (Academic Excellence), NSLS, NSCS, The Rutgers Economics Society
Interests: Reading, Soccer (1st Team, All-State), Nutrition, Blockchain, Web3 Psychology, Writing, Macroeconomics