MATTHEW K. PARMETT

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EDUCATION

University of Pennsylvania — Philadelphia, PA

School of Engineering and Applied Science — Dec 2023
Master of Computer and Information Technology — GPA: 3.97 / 4.00
Relevant Coursework: Data Structures, Algorithms & Computation, Artificial Intelligence, Big Data Analytics, Operating Systems, Natural Language Processing
Sample Projects:
- Character-level recurrent neural network model in PyTorch for classification of city names by country
- Static analysis using CodeQL to find security vulnerabilities in open-source codebases
- Deep neural network & regression models to classify foods & predict nutrition scores using OpenFoodFacts data
- Assembler and disassembler for LC4 CPU, a simulated CPU architecture developed at Penn

The Wharton School — May 2014
B.S. in Economics; Concentrations in Finance, Operations & Information Management — GPA: 3.76 / 4.00
Relevant Coursework: Natural Language Processing, Business Programming Languages, Data Analysis

College of Arts and Sciences — May 2014
B.A. in Political Science — GPA: 3.76 / 4.00

University of Washington — Seattle, WA
Certificate in Python Programming — 2020–2021
Sample Projects: Blog application hosted on Django/Azure; social network backend using SQLite/Flask

PROFESSIONAL EXPERIENCE

Liberty Mutual — Seattle, WA
Software Engineering Intern, Digital Dialogue — May – Aug 2023
- Redesigned email archiving service to run on serverless AWS Lambda/SQS architecture, reducing runtime by 67%
- Implemented event-driven service on Apache Kafka to notify business groups upon SMS message delivery via Twilio

Kanary (kanary.com; data privacy startup for automated online data removal) — Seattle, WA
Software Engineering Intern — July – Dec 2022
- Transitioned core member data monitoring and removal services from Python to extensible Go service architecture
- Increased data removal rates for top brokers by more than 40%, addressing backlogs for over 10,000 members

Echo Health Ventures — Seattle, WA
Healthcare Venture Capital Principal — 2018 – 2022
- Sourced, evaluated, and executed investments in early- and growth-stage healthcare companies for top-quartile fund
- Led Echo's virtual and convenient care investing practice; executed investments in TytoCare, Genome Medical, Heartbeat Health, FastMed, and Dispatch Health and served as Observer on each company's Board of Directors

J.P. Morgan — New York, NY
Healthcare Investment Banking Associate — 2014 – 2018
- Structured and underwrote over $15 billion in taxable and tax-exempt debt for large healthcare systems
- Valued acute care providers for healthcare organizations considering consolidation; performed comparable company and discounted cash flow analysis, and forecasted industry trends to make strategic recommendations

EXTRACURRICULAR ACTIVITIES

Seattle GiveCamp 2023 – Hackathon Volunteer
- Built website and SEO plan for local sports organization serving athletes with non-traditional backgrounds

Penn Labs (f.k.a. PennApps Labs) – Developer Relations Coordinator
- Designed and implemented APIs for campus systems; evangelized PennApps APIs to student developers

Sample Personal Projects:
- Splitwise clone – iOS app for expense recording/splitting with Venmo integration, using AWS DynamoDB/SNS
- Snapchat clone – iOS app for private, ephemeral photo/video messaging using AWS S3/Lambda/SNS
- Jukebox - music recommendation engine that suggests artists based upon user's physical vinyl collection
- Runmember – mashup of Strava, Foursquare, and Mapbox APIs to list points of interest on running route
- Digest - extensible email newsletter platform written in Ruby; hosted on Heroku

Technologies: Python, Typescript/NodeJS, Java, AWS, Bamboo, Git, Splunk, Kafka, SQL/Postgres, CodeQL
Interests: Hifi/DIY audio, record collecting, homebrewing, film photography, guitar, tennis, Magic the Gathering