Jacob Dill | Computer Science | QPA: 3.2

Carnegie Mellon University '22 | Junior

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Professional Experience

Plecosystems Inc. — New York, NY

- Junior Technical Business Analyst (Summer 2020 & Current):
  - Provided consulting to CEO and Head of Digital Strategy on cloud-based employee onboarding solutions, operational reporting software, enterprise data warehouse staffing, and value propositions for partners engaged in Middle East payment gateway solutions.
  - Collaborated with overseas resources to develop an e-commerce gateway in React.js for a Fortune 100 pharmaceutical firm. Contributed front-end customer features and UX guidelines.

Lockheed Martin Sikorsky IT — Stratford, CT

- Application Support (Summer 2018):
  - Implemented a Python-to-Perl interface utilizing the SSH protocol into IT's application test environment. Accelerated intern training period (most new interns knew Python, not Perl)
  - Collaborated with another team of other interns to upgrade the technology in the conference room. Increased conference room utilization and more than halved reservation conflicts.
- Team Site Maintenance (Summer 2017):
  - Developed, maintained, and documented the team site used for the storage, accessibility, and distribution of project information. This site continued to be used into my second year.
  - Replaced decades-old data storage system using Unix terminal with Microsoft SharePoint site.

Projects

Build18 Hackathon – *Pæthos VR* (2020)

- An Oculus Quest VR experience that interacts with brainwaves via an EEG band over Bluetooth to create a virtual reality experience in response to user brainwaves [*JavaScript, A-Frame, Blender*]

Minecraft Forge – *Endgame Mod* (2020)

- A modification to a Java application utilizing Forge to add more gameplay features. Self-taught recent libraries with dated documentation [*Java, JSON, Blender, Adobe Suite, Eclipse IDE*]

Hack This Help Kids – *Meda* (2019)

- A modern web portal for transferring medical patient information between healthcare providers. Won "Best Use of Domain Award" for compatibility across web-platforms [*HTML, SCSS, React.js*]

MIT Blueprint Learnathon/Hackathon – *PhysSolver* (2018)

- A mobile application that auto-completes common mechanical and electrical physics equations used in secondary educational environments [*Swift, iOS*]

Organizations

Carnegie Mellon University Senate (2019-20)

- Communications Committee: Undergraduate Senate Website Overhaul [*HTML, CSS, JavaScript*]

Game Creation Society (2019-20)

- Implicitus: Stack-based functional puzzle game [*Unity, C#, Object-Oriented Programming*]
- SMEDex: Planetary Resource Management Game [*Unity, C#, Object-Oriented Programming*]

Skills

Code: Java, Python, React.js, C#, C, HTML, CSS, JavaScript, JSON, SML, Perl, Swift

Software: Unity, Adobe Suite, Microsoft Office, Blender, A-Frame, Eclipse IDE

Operating Systems: macOS, Windows (7, 8.x, 10), Linux, Unix, iOS

Coursework

10-315: Introduction to Machine Learning [*Neural Networks, Tensor Flow, Support Vector Machines*]
15-330: Introduction to Computer Security [*C, x86 Assembly, Unix, OS Security*]
15-210: Parallel and Sequential Data Structures and Algorithms [*SML, Unix*]
15-213: Intro to Computer Systems [*C, x86 Assembly, Unix*]
76-270: Writing for the Professions [*Microsoft Office, Adobe Suite*]