

Paul Flanagan

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OBJECTIVE

Experienced software engineer seeking a challenging role where I can leverage my technical expertise and collaborative skills to solve business problems and drive innovation.

SKILLS

Web & Programming: Python, Django, JavaScript, Java, TypeScript, NodeJS, ElasticSearch, SQL, HTML, CSS, REST API, MATLAB, R, Swift

Framework and Tools: Express, React, Redux, Atlassian, ServiceNow, Confluence, Webstorm, Agile (Jira), CLI (bash, zsh, Powershell, Windows), Jupyter, Pytorch, TensorFlow, AI prompt generation/manipulation

Infrastructure: Git, Gitlab template for CI/CD, Docker, Jenkins, Kubernetes, AWS (Lambda, EC2, CloudFormation, CloudWatch, S3, RDS MySQL), Azure (Cosmos DB, Azure Containers, Storage, AI Foundry)

EXPERIENCE

Full Stack Engineer, VoteMate - Aug 2025 – Present

- Contribute to front-end, integration and back-end features, working across UX/UI, AI, and product teams to deliver features
- Build and maintain scalable APIs and backend services Python/FastAPI, Node.js
- Integrate with cloud-native tools (Azure, among other Microsoft products) and CI/CD pipelines
- Work within sprint goals and GitHub tickets, participating in code reviews, planning sessions, and architecture discussions
- Support and supervise the contribution efforts of Carnegie Mellon interns

Software Engineer, Wellington Management, Boston, MA - July 2022 – May 2025

- Designed and delivered data-driven solutions to enhance the quality and efficiency of investment decisions for investment directors
- Leveraged a suite of Amazon AWS products (CloudFormation, S3, EC2, Lambda) to host, modify, and monitor batched data processing, deploying through Jenkins
- Enhanced current processes by breaking down complex jobs into reusable components for broader team utilization
- Formulated a new full stack workflow for a preexisting project through collaboration with portfolio analysts and software architects
- Developed, executed universal certificate renewal process for AWS ACM in partnership with technical engineers
- Maintained, updated, and improved data collection and analysis systems through effective communication with internal and external development teams

Data Developer, Hemedex, Waltham, MA - February 2022 – July 2022

- Generate time-synchronized tables, relative to time of injury, based on differentiated patient data
- Analyze data, create new parameters for analysis based on tables using Excel, MATLAB, PowerPoint
- Present findings to medically trained audience to inform training, usage of medical devices in ICU
- Coordinate tasks with peers with varying levels of technicality in neurobiology, technology

EDUCATION

Northeastern University, Boston, MA

Master of Science, Computer Science. GPA: 3.58

Bentley University, Waltham, MA, Aug 2021

Bachelor of Science, Computer Information Systems. GPA: 3.64