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| Brian Lauber  Principal Software Engineer | * Washington, DC * 216-394-2081 * [blauber@arclia.com](mailto:blauber@arclia.com) * <https://brianlauber.com/> |

# Professional Experience

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| Principal Software Engineer | October 2019 – August 2024 |
| Plutometry Corporation | Washington, DC |
| * Instituted software engineering methodologies throughout the company. * Orchestrated the delivery of Plutometry’s financial prediction platform, thus enabling the company to sign its first customers and begin collecting revenue. * Facilitated the development and analysis of Plutometry’s Machine Learning models. * Formalized the mathematical underpinnings for numerous business concepts. | |

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| Principal Software Engineer | May 2016 – October 2019 |
| 33Across | New York, NY |
| * Architected a globally-distributed advertisement delivery platform that served millions of web-service requests per minute with a target latency of 5ms per request. * Lead the engineering efforts for a diverse portfolio of projects that included UI/UX, web services, data ingestion, data analytics, and more. * Invented several transformative technologies, including specialized pattern matchers, distributed bookkeepers, distributed decisioning, data syndicators, and domain-specific languages. | |

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| Owner + Principal Software Engineer | July 2014 – Present |
| Arclia LLC | Washington, DC |
| * Adopted engineering efforts for early-stage startups. * Refined problematic codebases to mitigate immediate fires, improve stability, and enable long-term maintainability. | |

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| Senior Software Engineer | June 2013 – June 2015 |
| JIBE | Washington, DC |
| * Crafted a domain-specific language that increased the productivity of the Integration Engineers by more than 1000%. This increased productivity also enabled JIBE to do business with much larger and more complex clients. * Cultivated career growth by coaching team members and providing architectural guidance. | |

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| Senior Software Engineer + Consultant | June 2008 – June 2013 |
| Cigital Inc. | Sterling, VA |
| * Overhauled an internal testing framework for usability and performance. Consequently, workloads that used to take 5 engineers 10 days to complete could now be handled by 1 engineer in 2 days. * Invented a framework that could discover new bugs by randomizing behaviors during testing. * Wrote a meta-programming extension for VBScript that empowered QA Teams to write robust QTP automation with only few lines of code. * Pioneered components that integrated Static Analysis into CI/CD pipelines. | |

# Professional Skills

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| Leadership | Project Management, Requirements Gathering, Road-Mapping, Documentation, Software Architecture, Process Improvement, Mentorship, R&D, Rapid Prototyping |
| Cloud | AWS, Azure, EC2, S3, RDS, Lambda, Fargate, EKS, ECR, ECS, CloudWatch, CloudFront, IAM |
| DevOps | Docker, Kubernetes, Terraform, Packer, GitLab-CI, Jenkins |
| Languages | Python, JavaScript, TypeScript, Ruby, Java, C#, C++, C |
| Frontend | React, Next.js, Gatsby, WebPack, Babel, Tailwind CSS, PostCSS |
| Backend | Koa.js, Express.js, Flask, Django, Rails, Sinatra, REST, SOAP, Selenium |
| Databases | MySQL, PostgreSQL, MSSQL, MongoDB, Redis, Hive, RabbitMQ, Grafana |
| ORMs and  Query Builders | SqlAlchemy, ActiveRecord, Mongoid, MongoMapper, Mongoose, Knex.js, LINQ, Hibernate, Django (models) |
| Data Science | Mathematical Analysis, NumPy, pandas, scikit-learn, ray, Jupyter, MLFlow |
| Security | Static Analysis, Secure Code Reviews, Hardware Security Modules, Cryptography |

# Education

* Bachelor of Science in Mathematics

Case Western Reserve University, 2008