



I am the **Director of Technology** for a \$14.5B **Hedge Fund / Advisory Firm**. I help teams build **Financial Software**. I love **empowering** and **guiding** teams, **programming**, and application **architecture**.

**References:**

*“Keith has been a phenomenal asset as a manager. Keith is an amazing mentor and always keeps me on track to meet my goals. I am a better developer having worked with him.”*

– Stefen Benton, Web Developer, eVestment.com (LinkedIn.com)

*“Keith is a one of the best architects and technical visionary's I have had the pleasure of working with.”*

– John Pettit, CTO, PerTrac and Backstop Solutions Group (LinkedIn.com)

**Key Skills:**

**Leadership:**

- Certified ScrumMaster
- Agile Project Management
- Empowered, Accountable Teams
- Clear, Focused Goals
- Environment of Trust

**Development:**

- Node.js
- AWS / Azure
- EC2/ Lambda / SQS / SNS / S3
- DynamoDB / NoSQL
- Elasticsearch
- Redis
- C# and VB.NET
- SQL Server / SQL Azure

**Experience:**



THE ROCK CREEK GROUP

***The Rock Creek Group***

**Director of Technology**

*Mar 2016 – Present*

RockCreek is a \$14.5B Hedge Fund / Investment Advisory Firm. With a hybrid team of on and offshore designers, developers, data scientists, and data architects, I lead the creation of 'Best of Breed' software systems tailored to Institutional Investors in Hedge Funds, Venture Capital, Private Equity, Private Credit, Real Estate, and Separate Managed Account strategies. As a hands-on leader, I work closely with each of the functional groups while also developing the API and the data model, leading the operations, technical support, and help desk.

**Key Accomplishments:**

- Designed and built a Best of Breed Analytics and Research Management Platform designed for Institutional Investors with multi-asset class portfolios
- Licensed and managed third party systems to automate and optimize data acquisition and management
- Customizable Investment and Operational Due Diligence collection, management, and review
- Comprehensive auditing, security, and workflow
- Advanced document analysis



- Investment and portfolio analytical tools, including:
  - Mean Variance Linear Portfolio Optimization
  - Estimated Tail Loss (CVaR) Non-Linear Portfolio Optimization
  - Factor Analysis and Returns Decomposition
  - Principal Component Analysis Machine Learning
  - Robo / Machine Learning Portfolio Construction
  - Risk Attribution and Risk Budgeting
  - Statistical Analysis



***eVestment.com (now a NASDAQ company)***

**Vice President of Technology**

*Nov 2012 – Mar 2016*

I founded and led the advanced analytics development teams, corporate IT team, and the accounting IT operations team. Together, we designed and developed a new line of products that were well received by the market and added strength and diversity to the company.

**Key Accomplishments:**

- Founded the Advanced Analytics team, leading the design and development of:
  - Portfolio Modeling
  - Markowitz Mean-Variance Portfolio Optimization
  - Monte-Carlo Portfolio Simulation
  - Hedge Fund Liquidity Modeling
  - Fee Simulation and Modeling
  - Exposure Analysis
  - Factor Analysis
  - Risk Analysis and Risk-Budgeting
  - Excel-based reporting solutions
- Founded the Corporate IT team
- Founded the Accounting IT Operations team



***PerTrac Financial Solutions (now a NASDAQ company)***

**Director of Development**

*Sept 2010 – Nov 2012*

**Lead Developer / Solutions Architect**

*June 2007 – Sept 2010*

**Software Developer**

*Jan 2005 – June 2007*

I started as one of three developers. We quickly expanded to more than 20 developers in three countries and my responsibilities grew to leading all development and production infrastructure. I was a member of the strategic planning committee, responsible for determining the strategic direction of the business and products. Eventually, I was part of the due diligence process associated with the sale of the company.

**Key Accomplishments:**

- Helped the company grow revenue from 15MM to more than 24MM
- Proposed and implemented several new products which lead to increase sales
- Helped scale our teams by introducing Agile Development practices, including Scrum and influences from Extreme Programming
- Introduced and institutionalized quality standards
- Implemented training to improve quality and assist development teams transition from WinForms development to Web and Mobile development



keith <a> knight

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**Genco Logistics (now a FedEx company)**

**Web Developer**

*Sept 2003 – Jan 2005*

I designed and built web and mobile applications for warehouse and shipment management. My applications were used for companies including Hershey Chocolates, Novartis Pharmaceuticals, Leapfrog, Chronicle Books, and Playtex.

Key Accomplishments:

- Designed and implemented an algorithm that improved warehouse fulfillment efficiency by ~150%.
- Custom ERP product I designed and built had a standing ovation when presented to the users

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## Education:



**Brigham Young University**

**BS Biochemistry**

*2000–2003*

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## Awards:

- 2014 eVestment Elite Associate Award
- 2013 eVestment Hackathon Winning Team
- Eagle Scout Award